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Teachers' manual of bird-life

Frank Michler Chapman

HARVARD UNIVERSITY.

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ACCOMPANYING TEACHERS' MANUAL OF

BIRD-LIFE.

BY

FRANK M. CHAPMAN,

Author of "Handbook of Birds of Eastern North America," etc.

D. APPLETON AND COMPANY, PUBLISHERS, NEW YORK.

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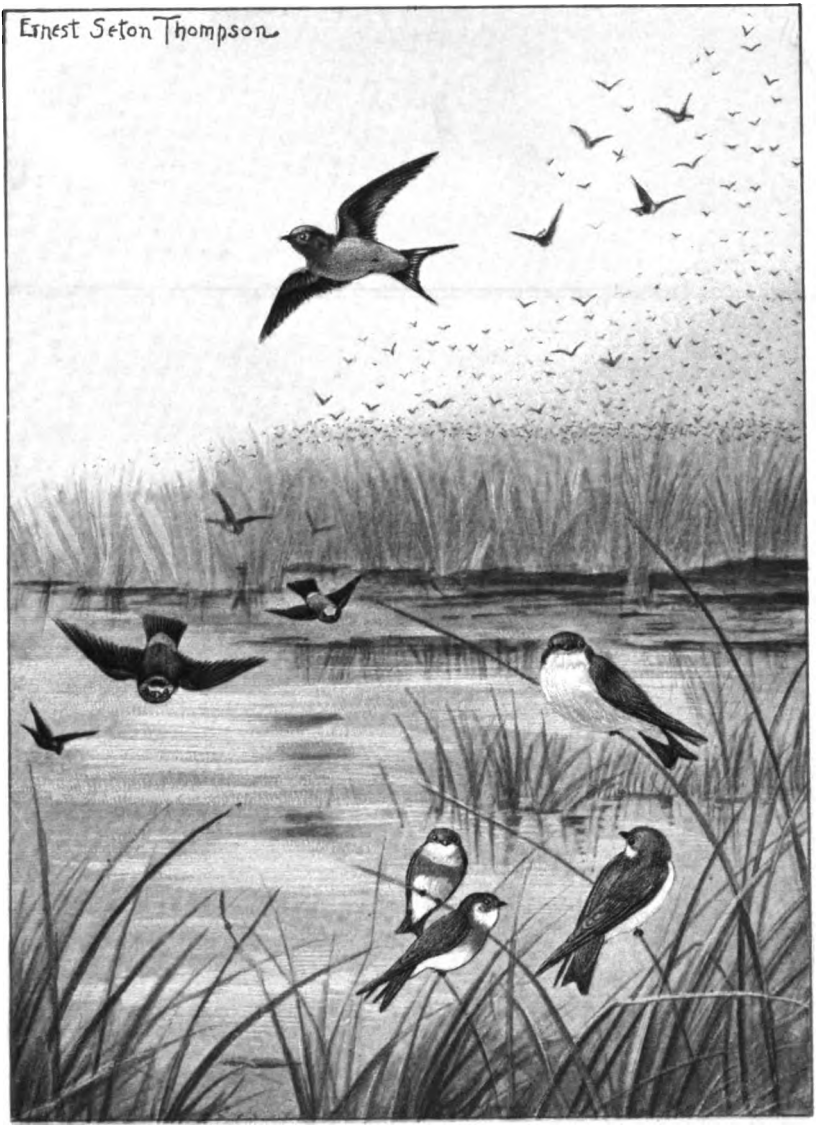

PLATE I. PAGE 156.

BARN SWALLOW.

CLIFF SWALLOW. TREE SWALLOW

BANK SWALLOW.

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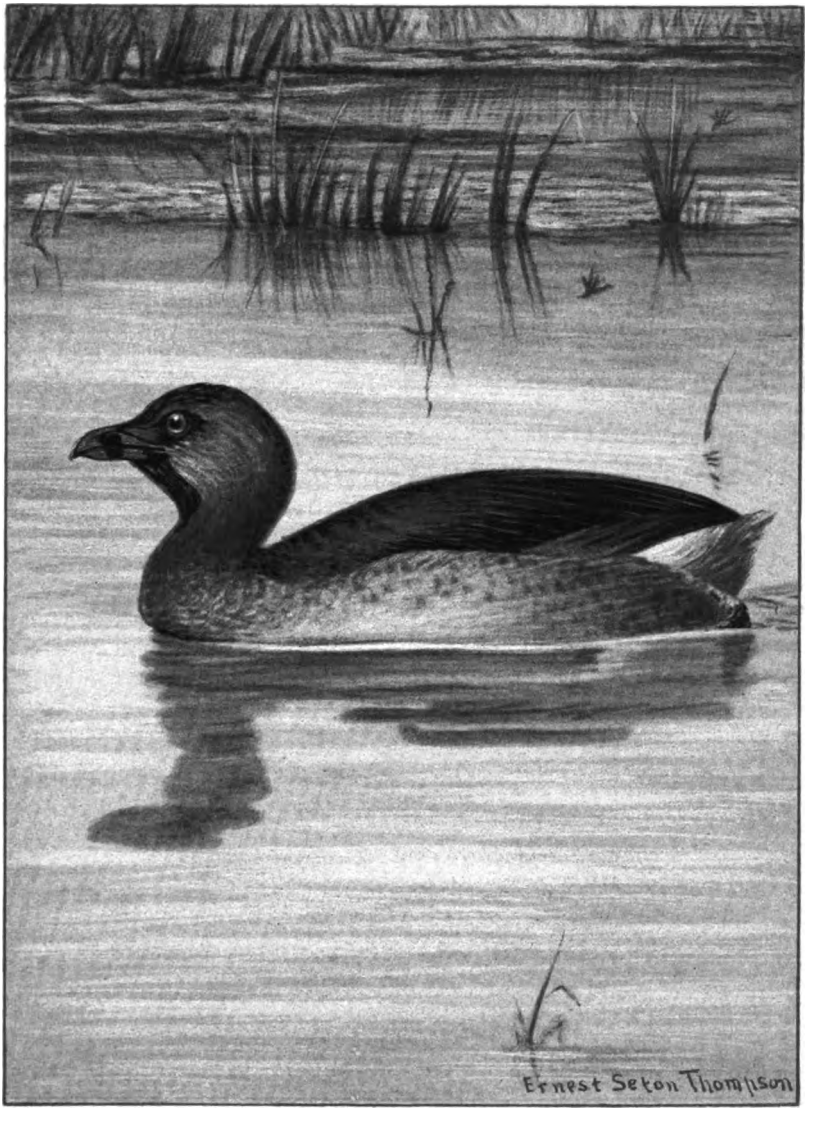

PLATE II. PAGE 84.

PIED-BILLED GREBE.

Length, 13·50 inches. *Summer plumage*, upper parts blackish brown; throat and spot on bill black; fore neck brownish, rest of under parts grayish white. *Winter plumage*, similar, but without black on throat or bill.

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PLATE III. PAGE 85.

LOON.

Length, 32·00 inches. *Summer plumage*, upper parts and fore neck black and white; breast and belly white. *Winter plumage*, upper parts dark grayish; under parts white.

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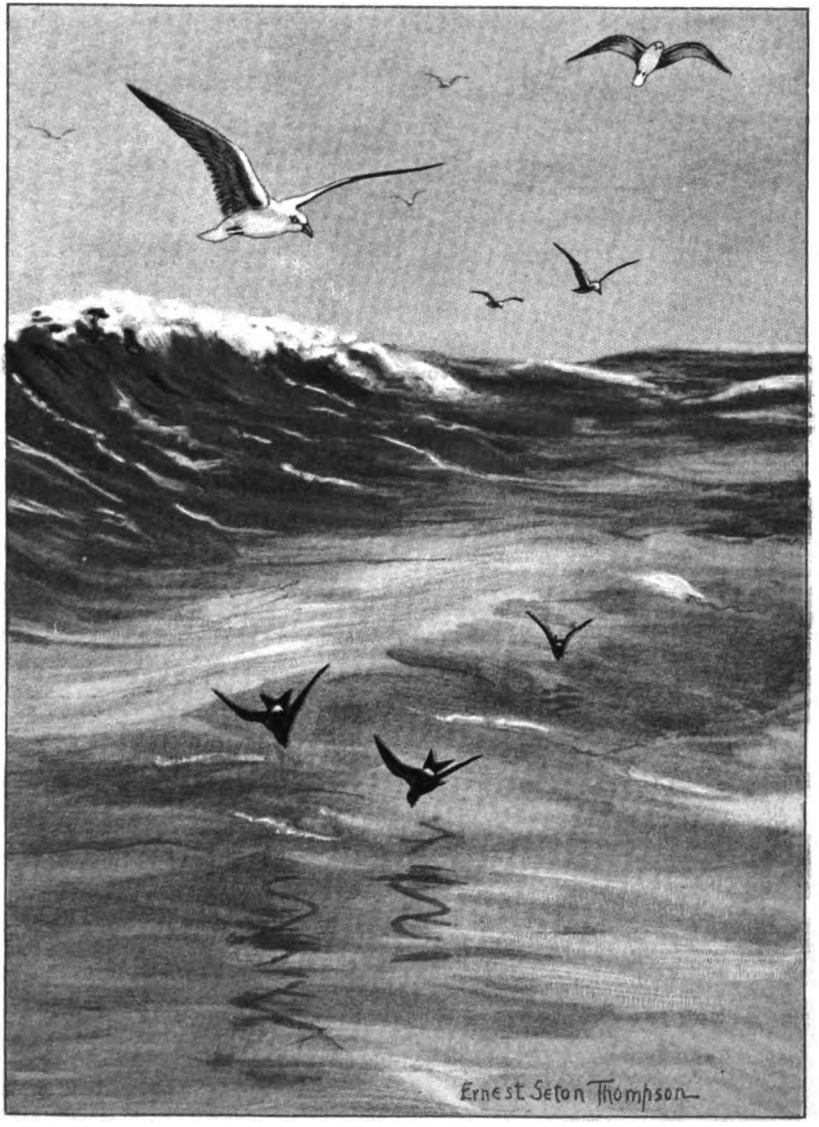

PLATE IV. PAGES 86, 88.

HERRING GULL.

Length, 24·00 inches. ***Adult*****, back and wings pearl-gray; end of primaries marked with black; rest of plumage white.** ***Young*****, dark grayish, primaries and tail brownish black.**

PETRELS.

Length, 7·50 inches. Black, upper tail-coverts white.

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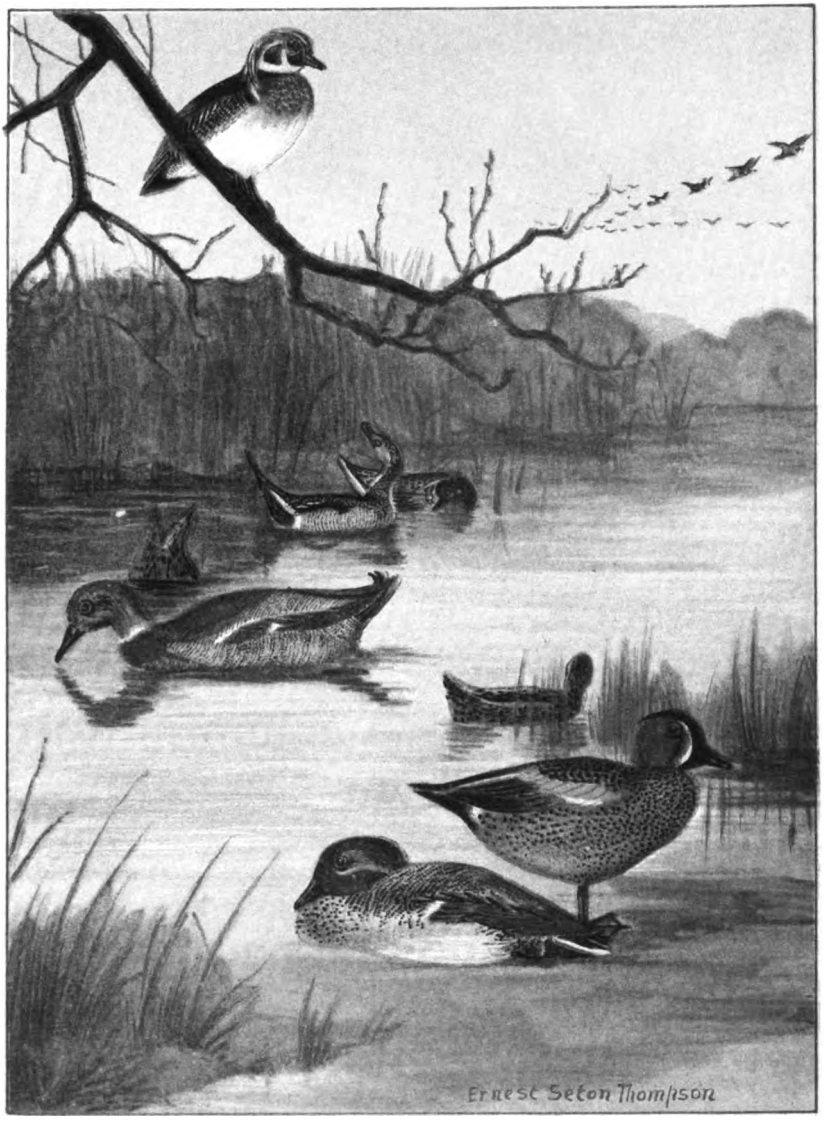

PLATE V. 4 5 PAGE 89.

1 WOOD DUCK.
2 PINTAIL.
3 MALLARD.
4 GREEN-WINGED TEAL.
5 BLUE-WINGED TEAL.
6 CANADA GEESE.

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PLATE VI. PAGE 90.

LITTLE GREEN HERON.
(*Length, 17·00 inches.*)

BLACK-CROWNED NIGHT HERON.
(YOUNG AND ADULT.)
(*Length, 24·00 inches.*)

GREAT BLUE HERON.
(*Length, 45·00 inches.*)

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PLATE VII. PAGES 93, 94.

AMERICAN BITTERN.

Length, 28·00 inches. A black streak on neck; body brown and buff; primaries slate-color.

SORA.

Length, 8·50 inches. *Adult*, upper parts olive-brown, black, and white; throat and face black, breast slate, belly white, flanks black and white. *Young*, similar, but face, throat, and breast white, washed with brownish.

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PLATE VIII. PAGE 94.

AMERICAN COOT.

Length, 15·00 inches. Head and neck blackish, body slate; under tail coverts, tips of secondaries, and end of bill white.

CLAPPER RAIL.

Length, 14·50 inches. Upper parts pale greenish olive and gray; throat white, breast pale cinnamon, flanks gray and white.

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PLATE IX. PAGE 97.

WILSON'S SNIPE.

Length, 11·25 inches. Upper parts black, buff, and rusty; throat and belly white, rest of under parts black and buff.

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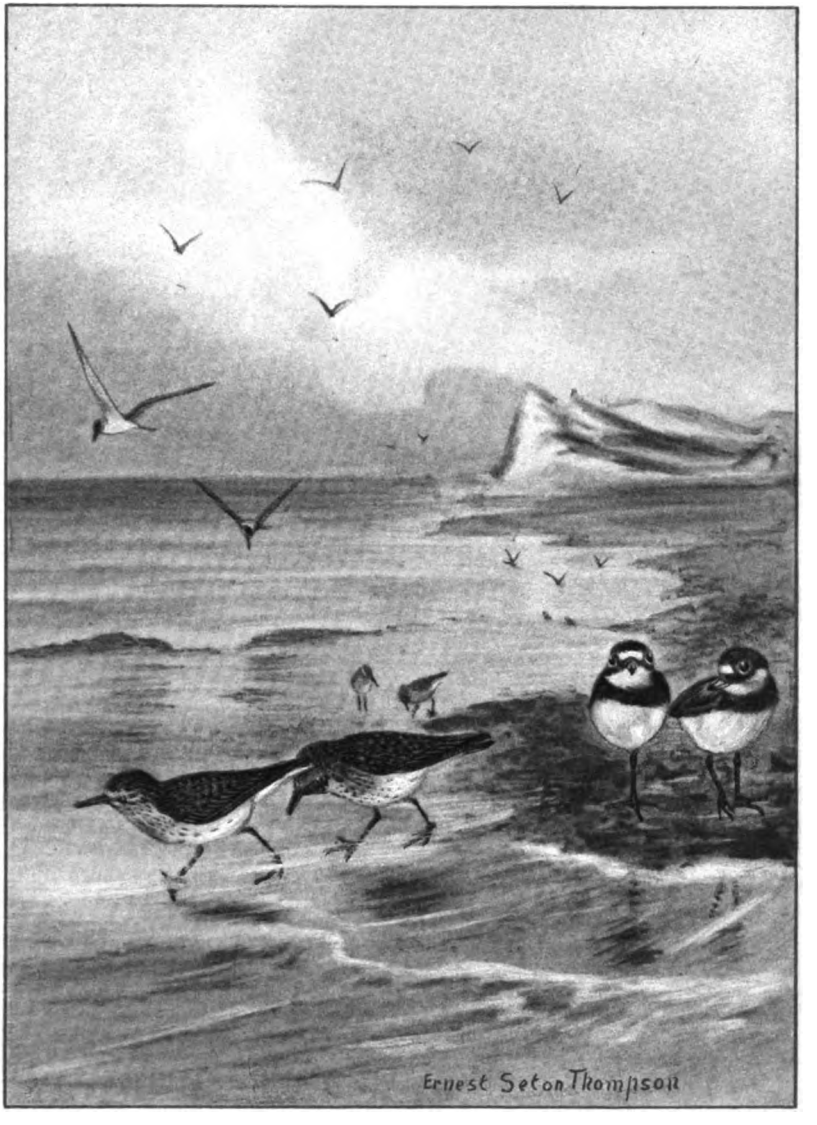

PLATE X. PAGES 87, 98, 99.

COMMON TERN.
(*Length, 15·00 inches.*)

SEMIPALMATED SANDPIPER.
(*Length, 6·30 inches.*)

SEMIPALMATED PLOVER.
(*Length, 6.75 inches.*)

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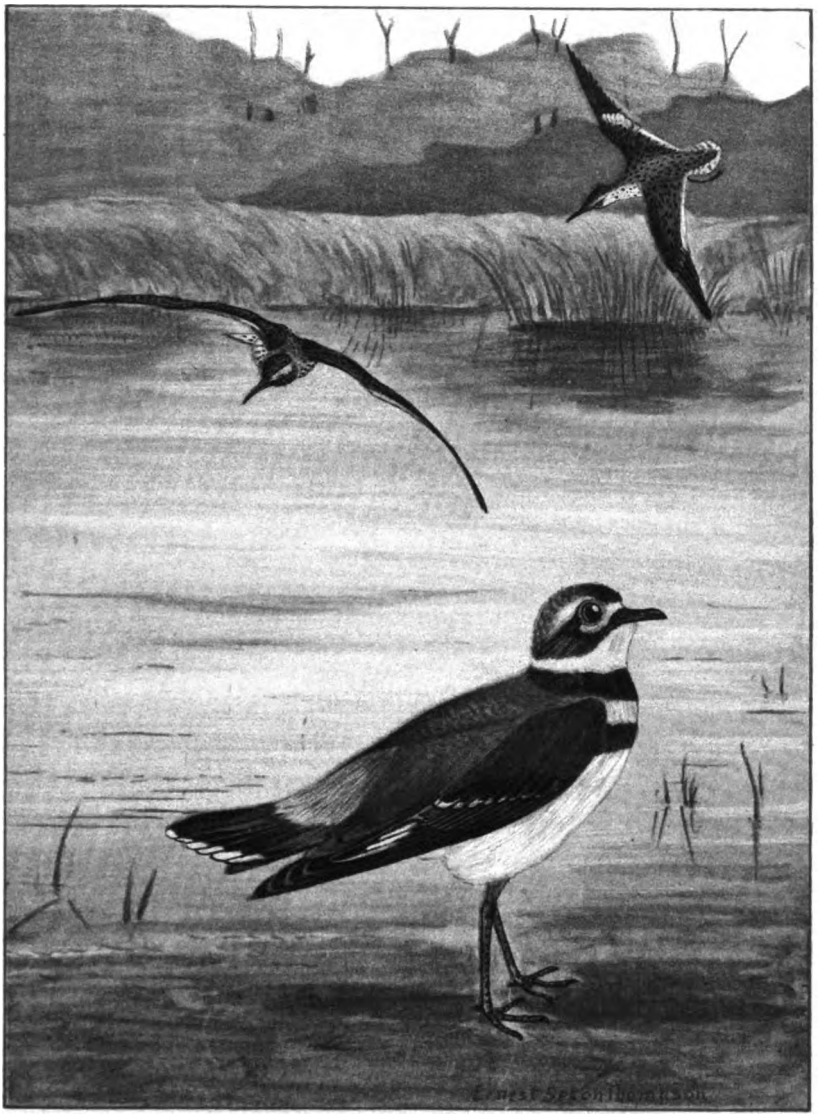

PLATE XI. PAGES 96, 99.

SPOTTED SANDPIPER.

Length, 7·50 inches. *Adult*, upper parts brownish gray and black; under parts white spotted with black; a white patch in wing. *Young*, similar, but without black.

KILLDEER.

Length, 10·50 inches. Upper parts brownish gray, upper tail-coverts rusty; under parts white; two bands on breast, crown and lores black, forehead and nape white.

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PLATE XII. PAGE 101.

RUFFED GROUSE.

Length, 17·00 inches. *Male*, neck tufts long, black; upper parts and tail gray or rusty, black and buff; under parts white, black and rusty. *Female*, similar, but with neck tufts no longer than adjoining feathers.

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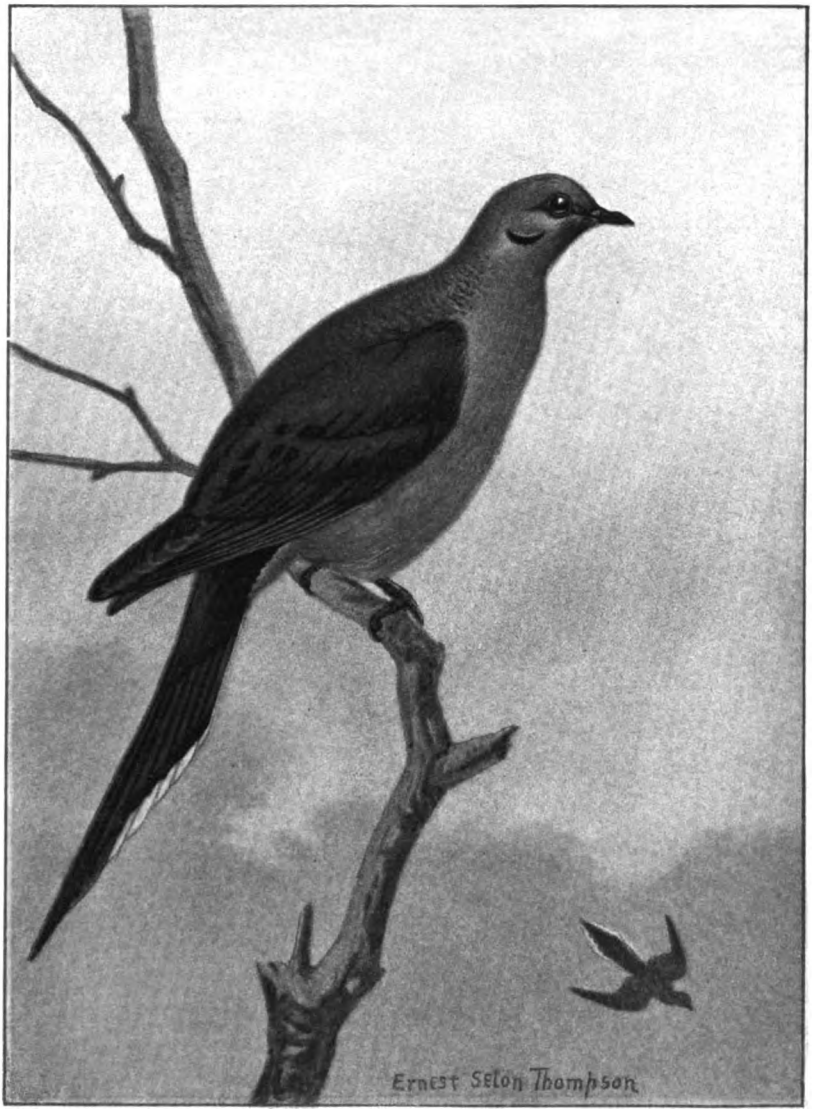

PLATE XIII. PAGE 102.

MOURNING DOVE.

Length, 11·75 inches. Upper parts olive grayish brown, sides and back of neck iridescent; breast with a pinkish tinge, belly buff; outer tail-feathers tipped with white.

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PLATE XIV. PAGE 104.

RED-SHOULDERED HAWK.

Length, 19·00 inches. *Adult*, upper parts blackish brown and rusty ; lesser wing-coverts bright chestnut ; wings and tail black and white ; under parts rich rusty and white. *Young*, less rusty on back, wings and tail largely rusty; under parts white, spotted or streaked with blackish.

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PLATE XV. PAGE 106.

MARSH HAWK.

Length, 20·00 inches. *Adult male*, upper parts gray; under parts white with rusty spots; upper tail-coverts white. *Adult female and young*, upper parts black and rich rusty; under parts rich rusty and black; upper tail-coverts white.

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PLATE XVI. PAGE 106.

SPARROW HAWK.

Length, 11·00 inches. *Male*, back reddish brown and black, wing-coverts slaty blue, tail reddish brown marked with black and white; under parts washed with rusty and spotted with black. *Female*, back, wings, and tail barred with reddish brown and black; under parts white, streaked with reddish brown.

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PLATE XVII. PAGE 107.

SHARP-SHINNED HAWK.

Length of male, 11·25 inches; of female, 13·50 inches. *Adult*, upper parts slaty gray; under parts white and rusty brown. *Young*, upper parts blackish brown; under parts white, streaked with rusty brown.

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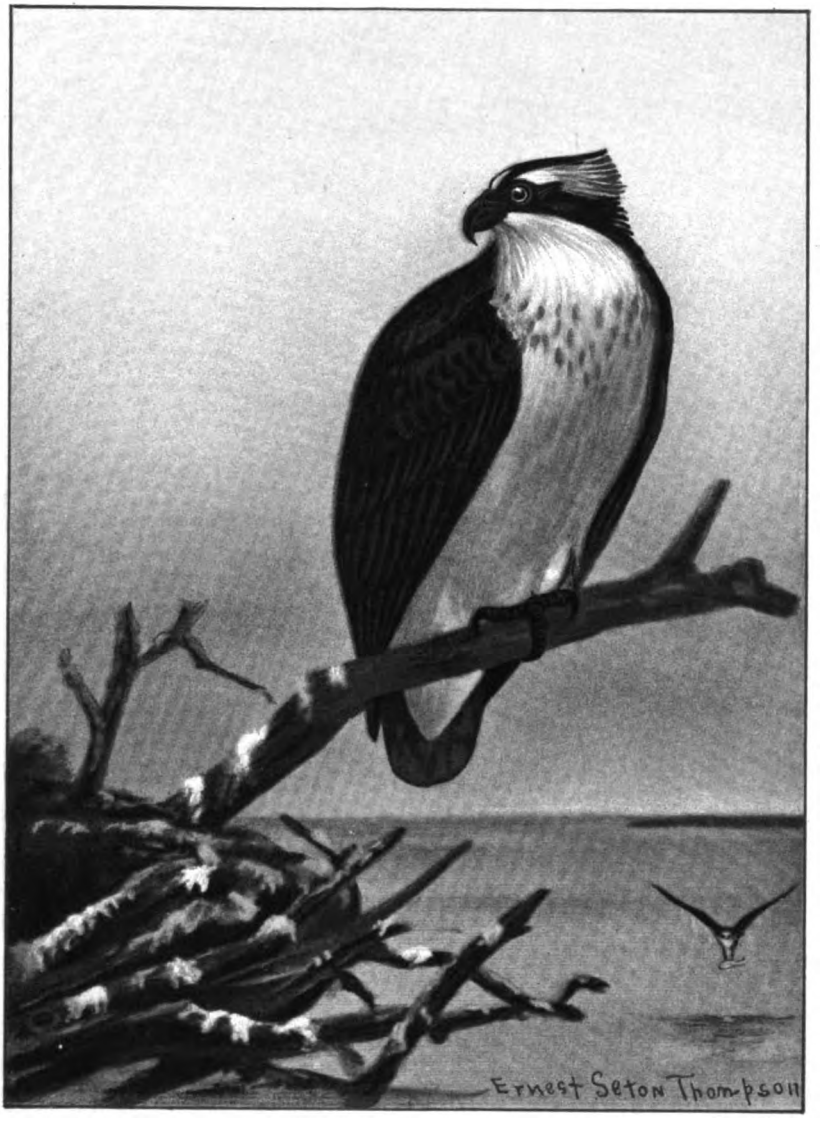

PLATE XVIII. PAGE 107.

AMERICAN OSPREY.

Length, 23·00 inches. Upper parts brownish black ; nape and under parts white ; breast marked with grayish brown.

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PLATE XIX. PAGE 109.

SHORT-EARED OWL.

Length, 15·50 inches. Upper parts black, buff, and rusty; under parts white and brownish black ; eyes yellow.

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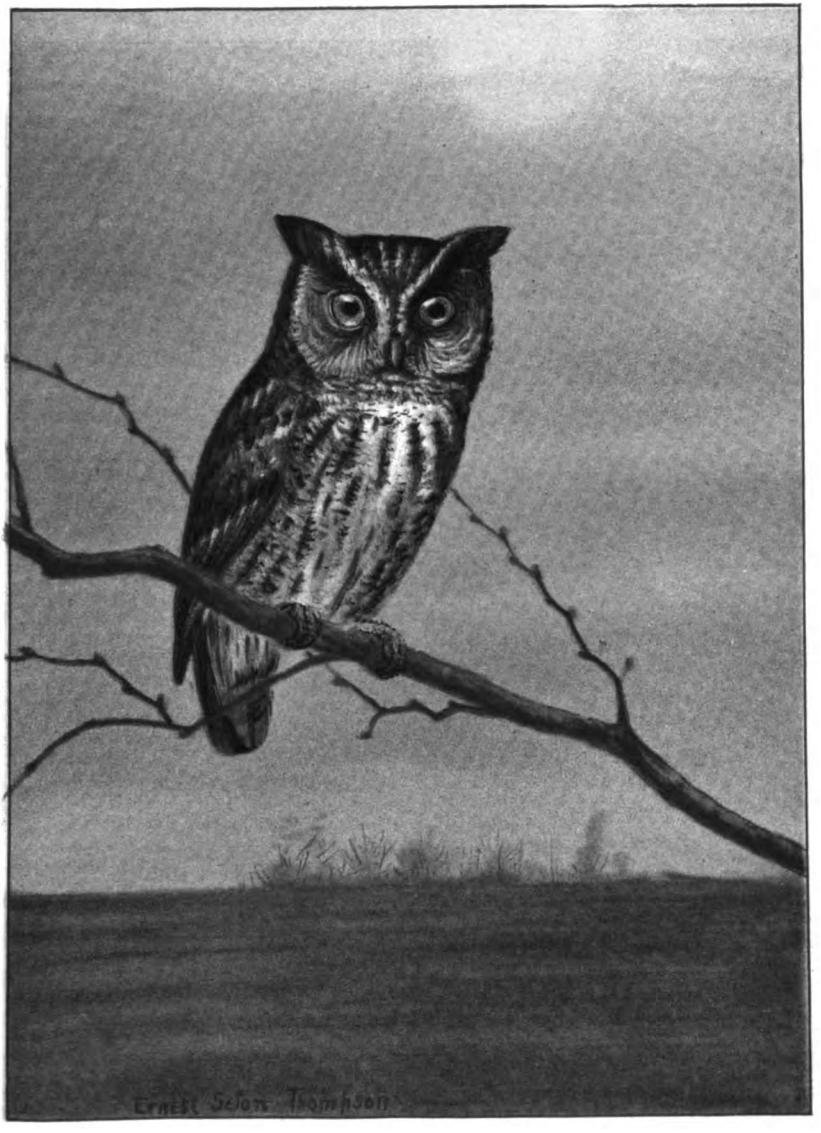

PLATE XX. PAGE 110.

SCREECH OWL.

Length, 9·40 inches. Upper parts gray, or bright reddish brown, and black; under parts white, gray, or bright reddish brown, and black; eyes yellow.

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PLATE XXI. PAGE 111.

BARRED OWL.

Length, 20·00 inches. Upper parts blackish brown and white; under parts white and blackish brown; eyes black.

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PLATE XXII. PAGE 112.

YELLOW-BILLED CUCKOO.

Length, 12·25 inches. Upper parts glossy olive-brown; outer tail-feathers black, tipped with white; under parts white; lower mandible yellow.

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PLATE XXIII. PAGE 114.

BELTED KINGFISHER.

Length, 13·00 inches. *Male*, upper parts bluish gray; under parts white, a bluish-gray breast-band and sides. *Female*, similar, but breast and sides with reddish brown.

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PLATE XXIV. PAGE 115.

DOWNY WOODPECKER.

Length, 6·75 inches. *Male*, upper parts black and white, nape scarlet; under parts white. *Female*, similar, but no scarlet on nape.

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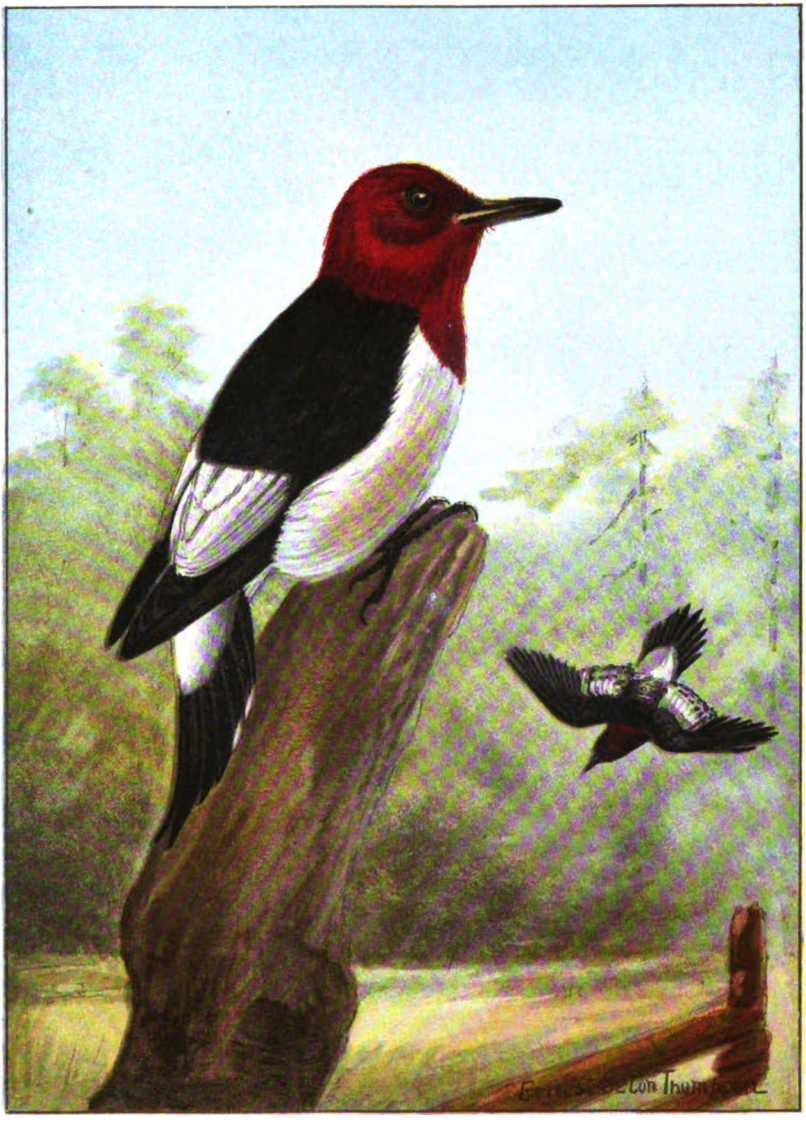

PLATE XXV. PAGE 116.

RED-HEADED WOODPECKER.

Length, 9·75 inches. *Adult*, whole head and neck deep red, back and tail black; upper tail-coverts, greater part of secondaries, and belly white. *Young*, similar, but head, back, throat, and sides grayish black.

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PLATE XXVI. PAGE 116.

FLICKER.

Length, 12·00 inches. *Male*, crown gray, nape scarlet, back brownish and black, rump white; under surface of wings and tail yellow; sides of throat and breast-patch black; belly spotted with black. *Female*, similar, but no black on sides of throat.

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PLATE XXVII. PAGES 118, 119.

NIGHTHAWK.

Length, 10·00 inches. *Male*, above, black, white, and rusty; below, black and white; throat, bands in wing, and tail white. *Female*, similar, but throat rusty; no tail-band.

WHIP-POOR-WILL.

Length, 9·75 inches. *Male*, body black, rusty, and buff; primaries spotted with rusty; tips of outer tail-feathers and breast-band white. *Female*, similar, but breast-band and end of tail rusty.

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PLATE XXVIII. PAGE 119.

CHIMNEY SWIFT.

Length, 5·40 inches. Sooty black, throat grayish.

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PLATE XXIX. PAGE 120.

RUBY-THROATED HUMMINGBIRD.

Length, 3·75 inches. *Adult male*, upper parts metallic green; throat metallic ruby-red; belly grayish; sides greenish. *Adult female and young*, similar, but throat white.

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PLATE XXX. PAGE 122.

KINGBIRD.

Length, 8·50 inches. Upper parts grayish black; tip of tail and under parts white; an orange-red crown-patch. *Young*, similar, but without orange-red in crown.

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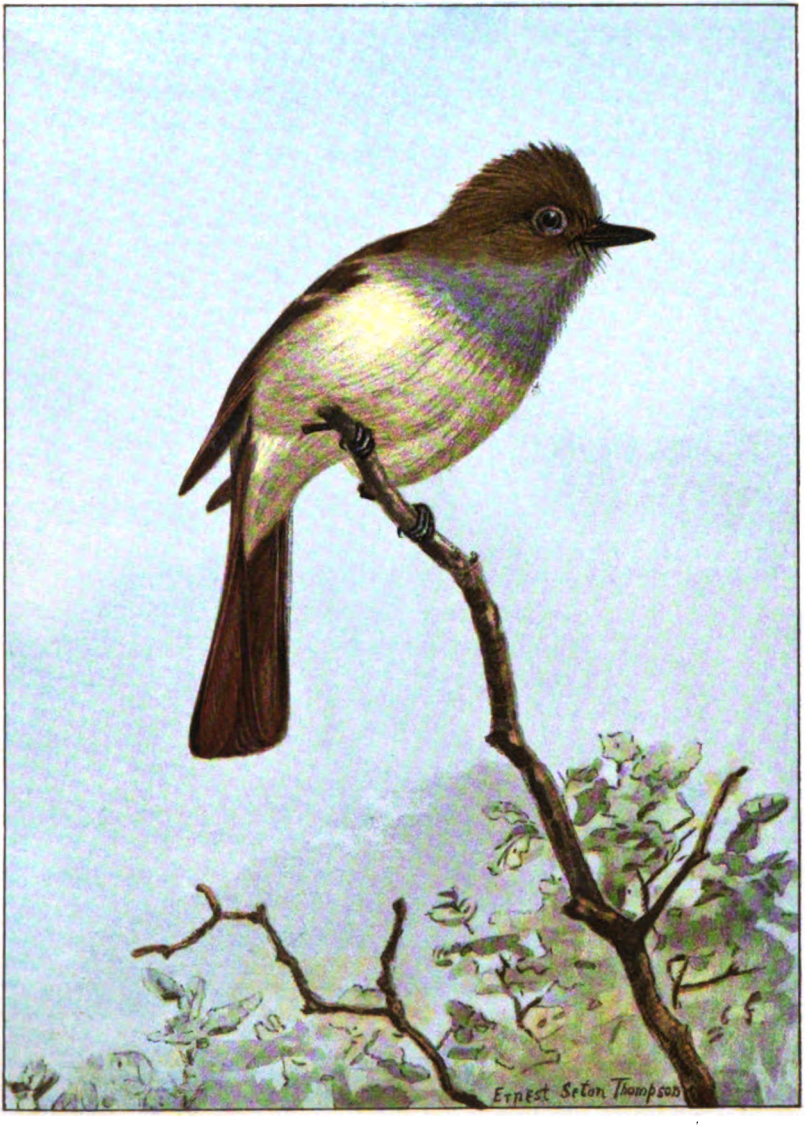

PLATE XXXI. PAGE 123.

CRESTED FLYCATCHER.

Length, 9·00 inches. Upper parts brownish olive-green; inner vane of tail-feathers rusty; breast gray; belly pale yellow.

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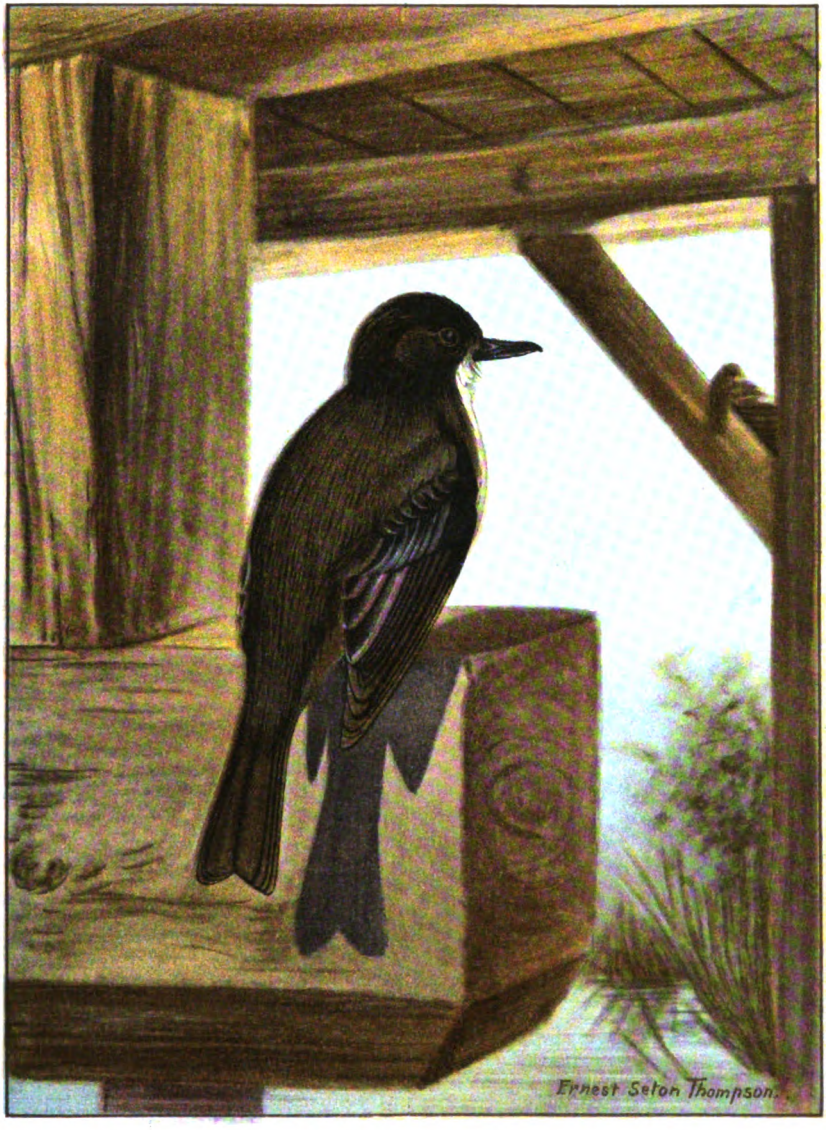

PLATE XXXII. PAGE 124.

PHŒBE.

Length, 7·00 inches. Back dusky olive; crown blackish; under parts white tinged with yellow; outer margin of outer tail-feathers whitish; bill black.

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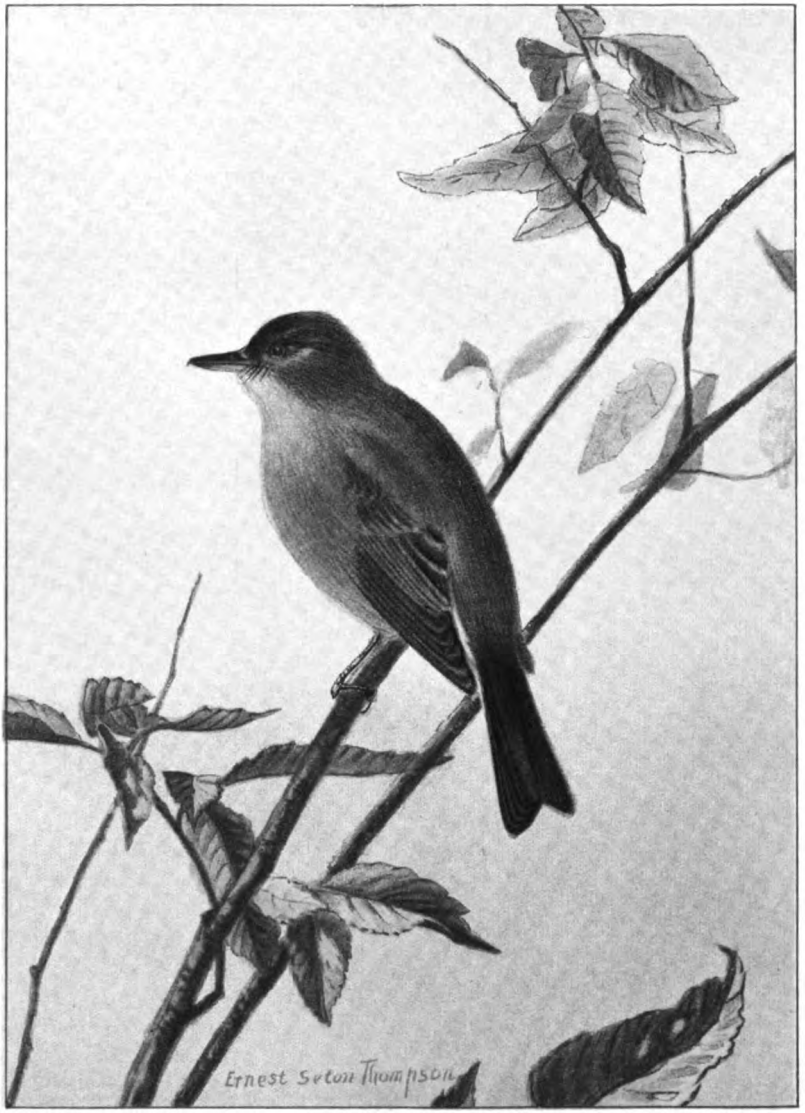

PLATE XXXIII. PAGE 126.

WOOD PEWEE.

Length, 6·50 inches. Upper parts dusky olive-green; under parts whitish, washed with dusky; lower mandible yellowish.

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PLATE XXXIV. PAGE 126.

HORNED LARK.

Length, 7·75 inches. Upper parts brownish and sandy; front and sides of crown, sides of throat, and breast-patch black; forehead, line over eye, and throat pale yellow; breast dusky, belly white, tail black, outer feathers margined with white.

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PLATE XXXV. PAGE 131.

BALTIMORE ORIOLE.

Length, 7·50 inches. *Male*, crown, upper back, and throat black; lower back, outer tail-feathers, breast, and belly rich orange. *Female*, upper parts mixed black and yellowish, rump and tail dirty yellow; under parts dusky yellow.

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PLATE XXXVI. PAGE 132.

ORCHARD ORIOLE.

Length, 7·30 inches. *Adult male*, crown, back, and throat black, rest of body chestnut. *Young male*, upper parts olive-green; throat black, rest of under parts yellowish. *Female*, similar, but black on throat replaced by yellowish.

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PLATE XXXVII. PAGE 133.

PURPLE GRACKLE.

Length, male, 12·50 inches; female, 11·00 inches. *Male*, head, neck, throat, and breast bright metallic blue, purple, or green; back with iridescent bars; belly paler; eye pale yellow. *Female*, much duller than male.

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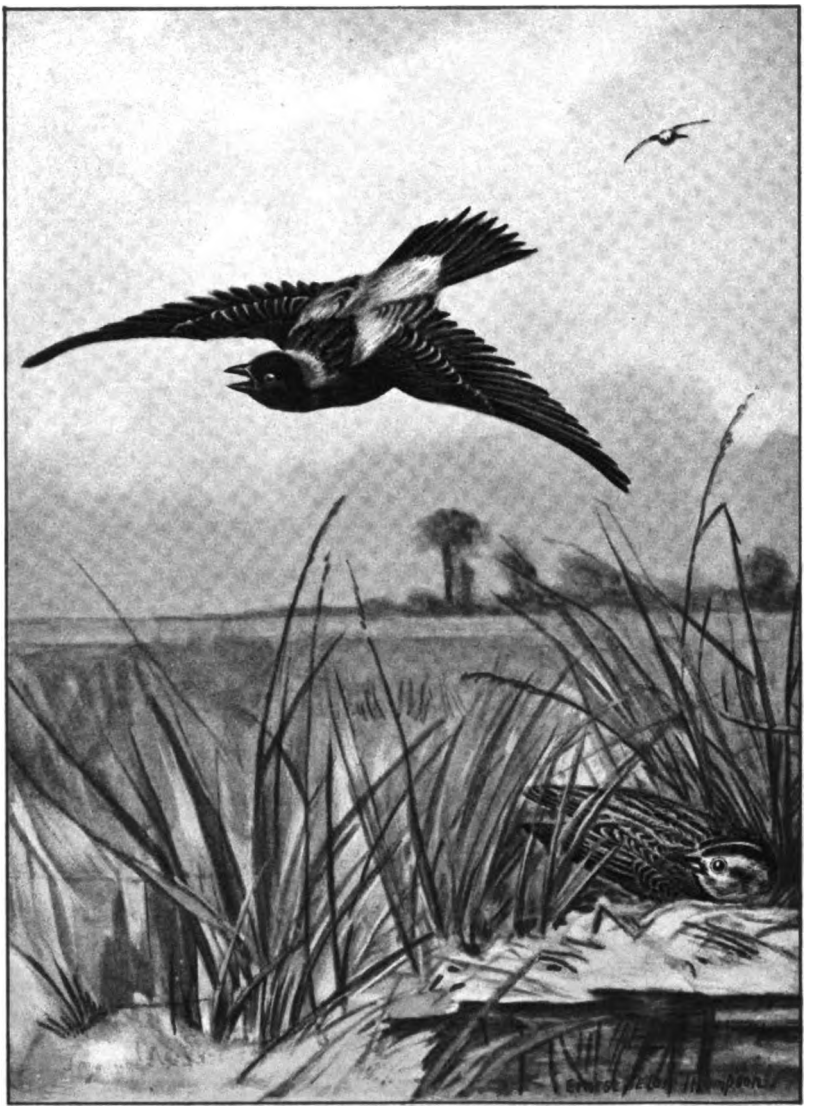

PLATE XXXVIII. PAGE 134.

BOBOLINK.

Length, 7·25 inches. *Male, in summer*, nape buff; shoulders and rump whitish; crown and under parts black. *Female, young, and male in winter*, sparrowlike; upper parts black, brownish, and buffy; under parts yellowish white.

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PLATE XXXIX. PAGE 136.

MEADOWLARK.

Length, 10·75 inches. Upper parts black, brown, and buff; under parts yellow, a black crescent on the breast, sides streaked with black; outer tail-feathers white.

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PLATE XL. PAGE 137.

COWBIRD.

Length, 7·90 inches. *Male*, head and neck all around dark coffee-brown; rest of plumage glossy greenish black. *Female*, dirty brownish gray; throat whitish.

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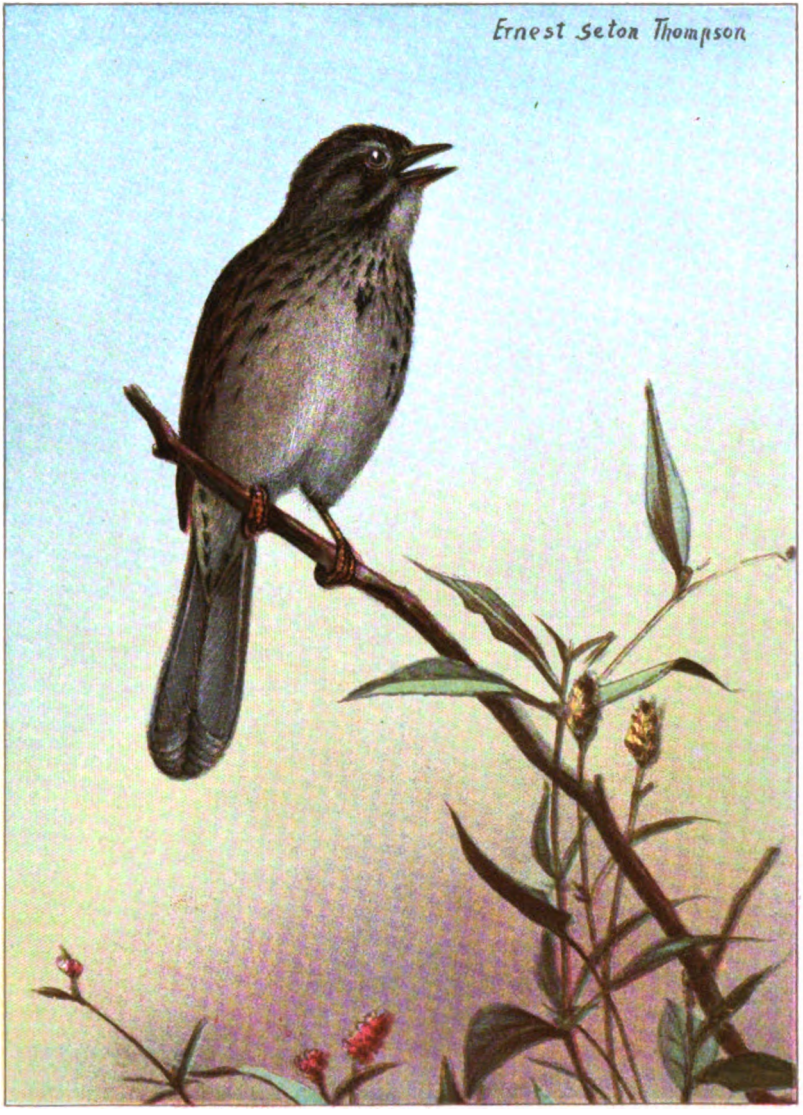

PLATE XLI. PAGE 138.

SONG SPARROW.

Length, 6·25 inches. Upper parts chestnut, gray, and black; under parts white, streaked with chestnut and black; outer tail-feathers shortest.

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PLATE XLII. PAGE 139.

SWAMP SPARROW.

Length, 5·90 inches. *Summer plumage*, crown bright chestnut; back black, brown, and buff; breast grayish; belly white; sides brownish. *Winter plumage*, similar, but crown streaked with chestnut-brown, black, and gray.

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PLATE XLIII. PAGE 140.

FIELD SPARROW.

Length, 5·70 inches. Upper parts bright reddish brown and black; under parts grayish white; bill reddish brown.

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PLATE XLIV. PAGE 141.

VESPER SPARROW.

Length, 6·10 inches. Upper parts grayish, black, and brown; breast and sides streaked with black and brown; belly white; lesser wing-coverts chestnut; outer tail-feathers more or less white.

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PLATE XLV. PAGE 142.

CHIPPING SPARROW.

Length, 5·35 inches. *Summer plumage*, forehead black; crown bright chestnut; back black, brown, and gray; under parts grayish white; bill black. *Winter plumage*, similar, but crown like back; bill brownish.

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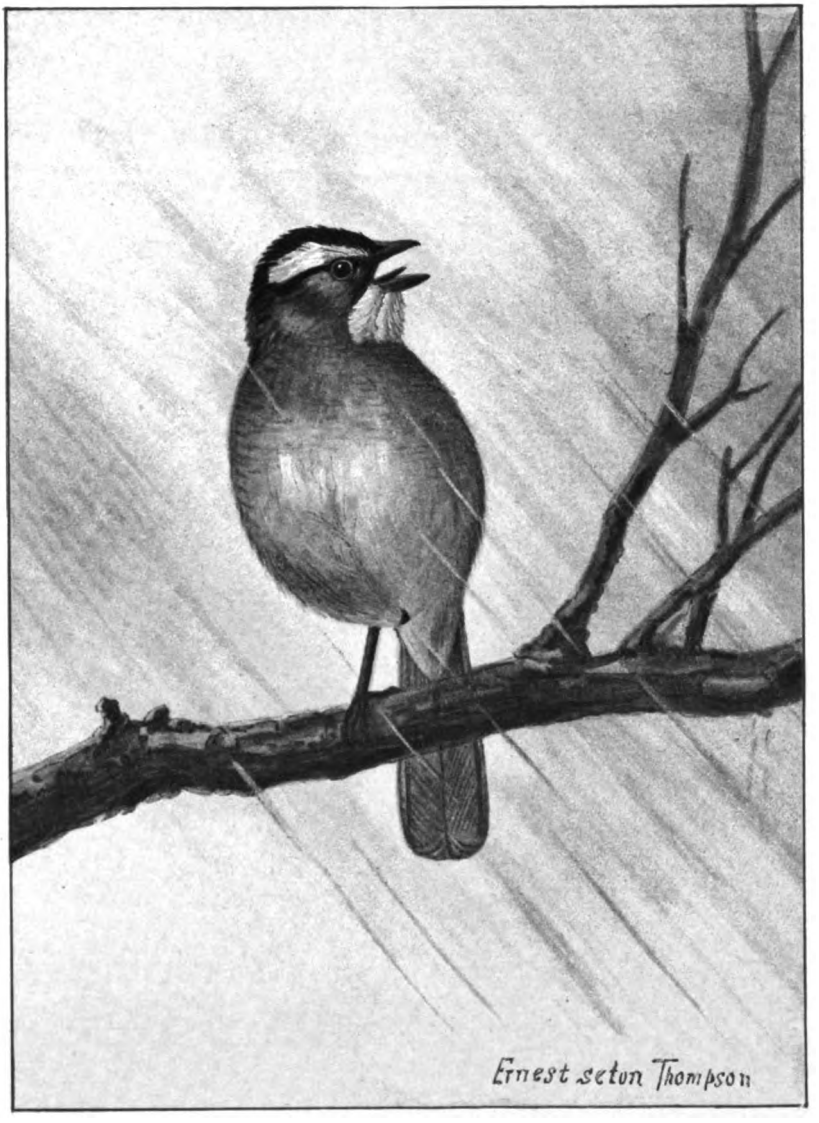

PLATE XLVI. PAGE 143.

WHITE-THROATED SPARROW.

Length, 6·75 inches. *Adult*, lores and bend of wing yellow; crown black and white; back chestnut-brown, black, and buff; throat white; breast and sides grayish; belly white. *Young*, similar, but crown more like back; yellow markings duller.

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PLATE XLVII. PAGE 144.

FOX SPARROW.

Length, 7·25 inches. Upper parts, wings, and tail bright reddish brown; back and head mixed with a browner color; under parts white and bright reddish brown.

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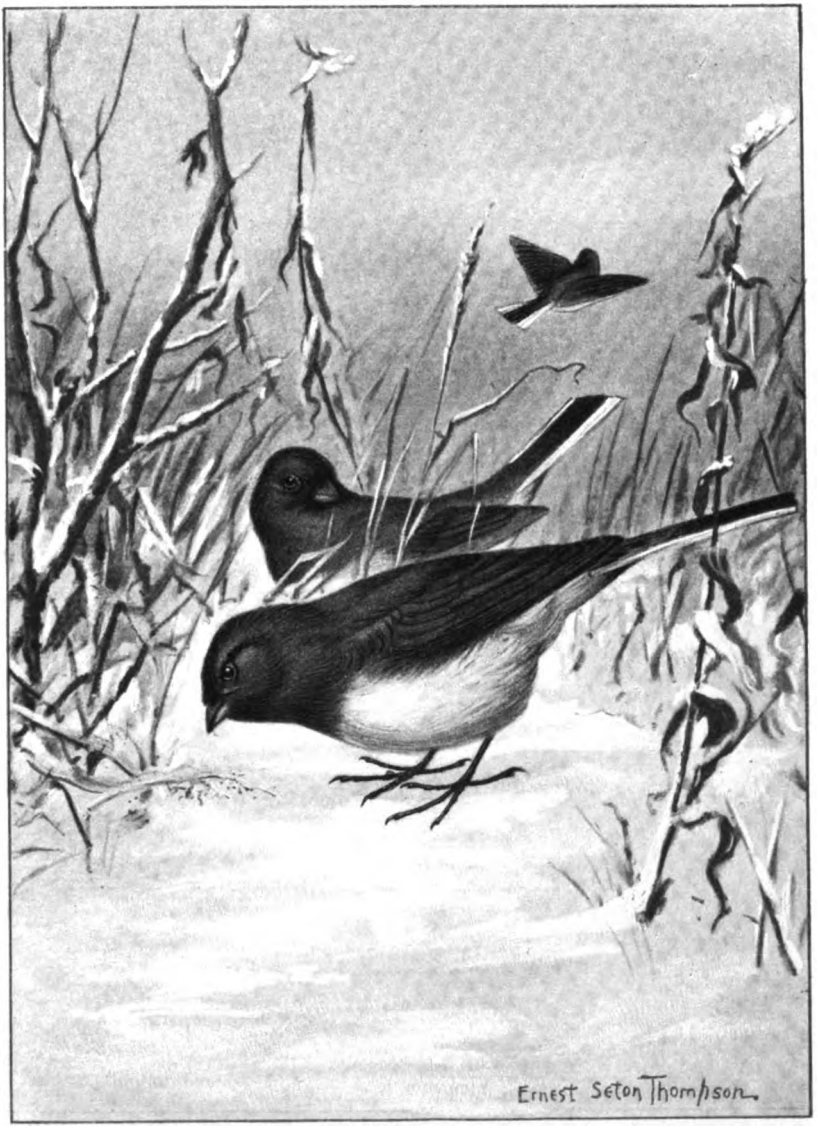

PLATE XLVIII. PAGE 145.

JUNCO.

Length, 6·25 inches. *Male*, upper parts, throat, and breast slate-color; belly and outer tail-feathers white. *Female*, similar, but plumage more or less washed with brownish.

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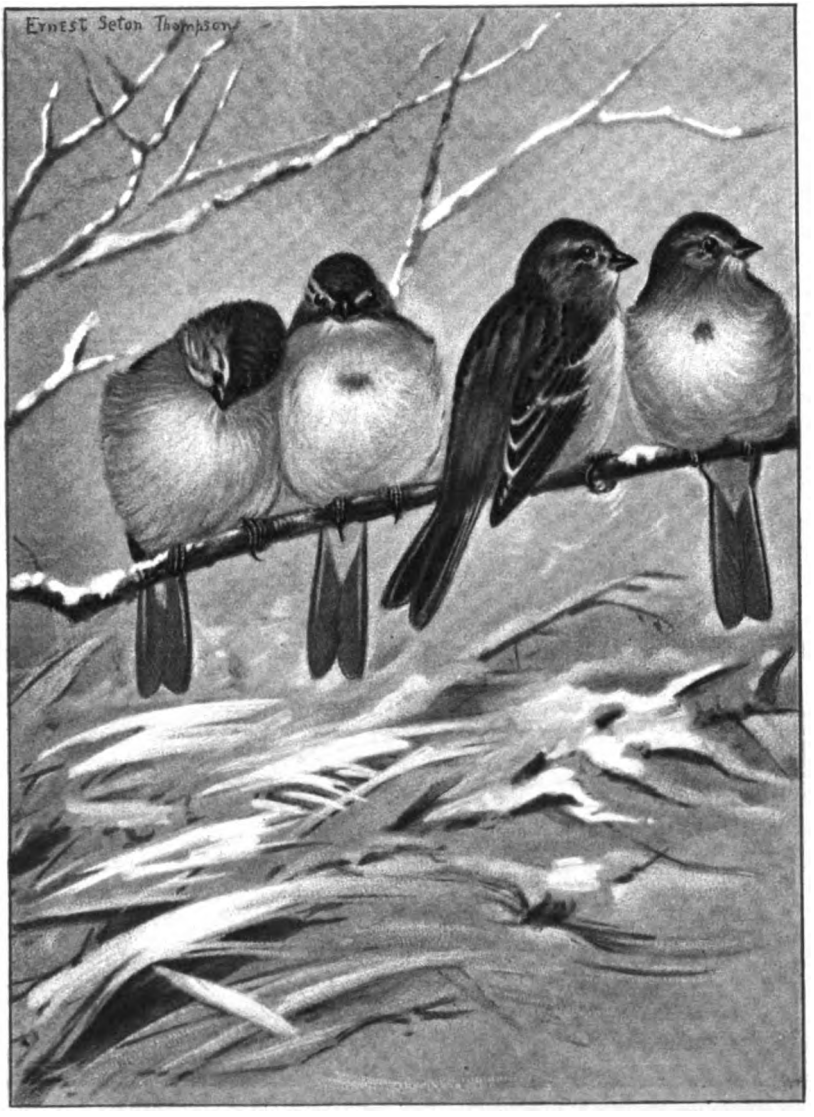

PLATE XLIX. PAGE 146.

TREE SPARROW.

Length, 6·35 inches. Crown bright chestnut; back black, reddish brown, and buffy; under parts grayish; sides washed with brownish; a blackish spot in the center of the breast.

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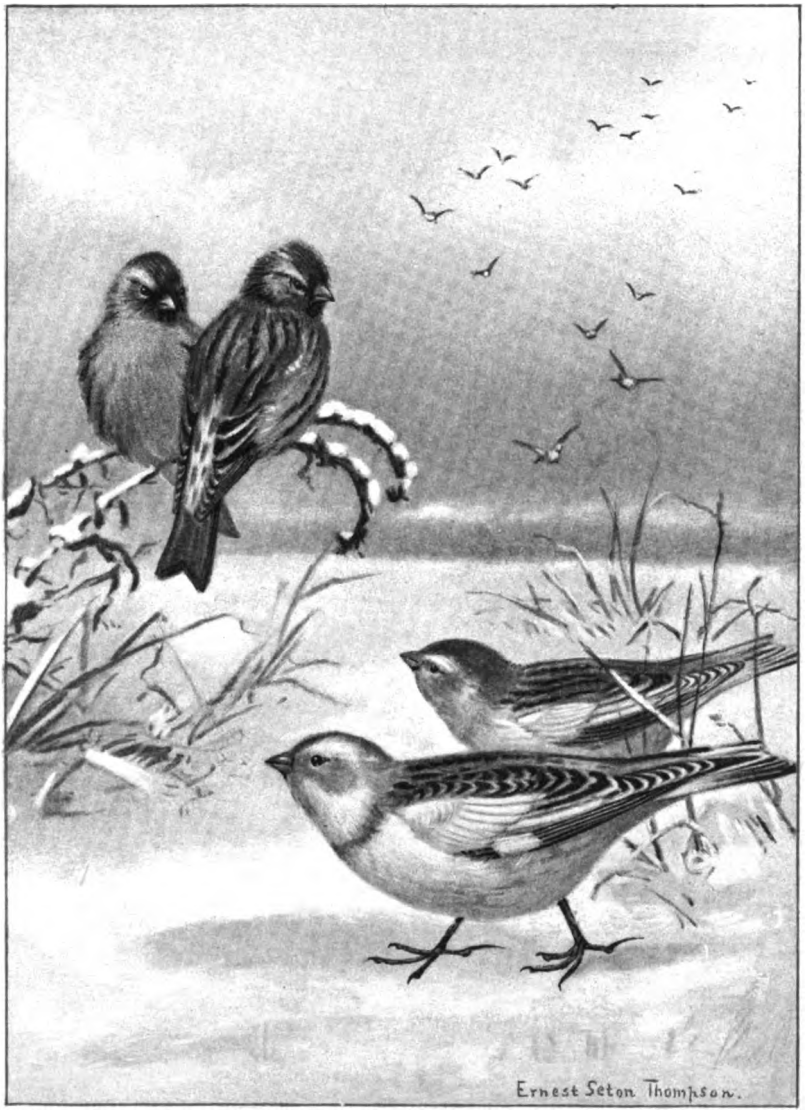

PLATE L. PAGES 146, 147.

REDPOLL.

Length, 5·30 inches. *Adult male*, crown bright red ; back brownish black and grayish ; throat black ; under parts white, streaked with black ; breast pink. *Adult female and young*, similar, but no pink on breast.

SNOWFLAKE.

Length, 6·90 inches. Upper parts brown and black ; wings and tail black and white ; under parts white ; breast and sides brownish.

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PLATE LI. PAGES 147, 148.

AMERICAN CROSSBILL.

Length, 6·20 inches. *Adult male*, dull red; back brownish; wings and tail blackish. *Adult female and young*, greenish; back more or less mottled with brownish; the under parts grayish.

PINE GROSBEAK.

Length, 9·10 inches. *Adult male*, rose-pink; back brownish; lower belly gray; wings and tail brownish black. *Adult female and young*, gray; crown, upper tail-coverts, and breast washed with deep yellow.

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PLATE LII. PAGE 148.

AMERICAN GOLDFINCH.

Length, 5·10 inches. *Adult male in summer*, crown black; rest of body yellow; wings and tail black and white. *Adult female and males in winter*, upper parts grayish brown; crown yellowish; under parts soiled whitish; throat yellow.

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PLATE LIII. PAGE 149.

PURPLE FINCH.

Length, 6·20 inches. *Adult male*, rose-pink ; back brownish ; lower belly white ; no white in wings. *Adult female and young*, upper parts streaked brownish and grayish ; under parts white, streaked with brownish ; bill rounded on top ; a tuft of bristly feathers over the nostrils.

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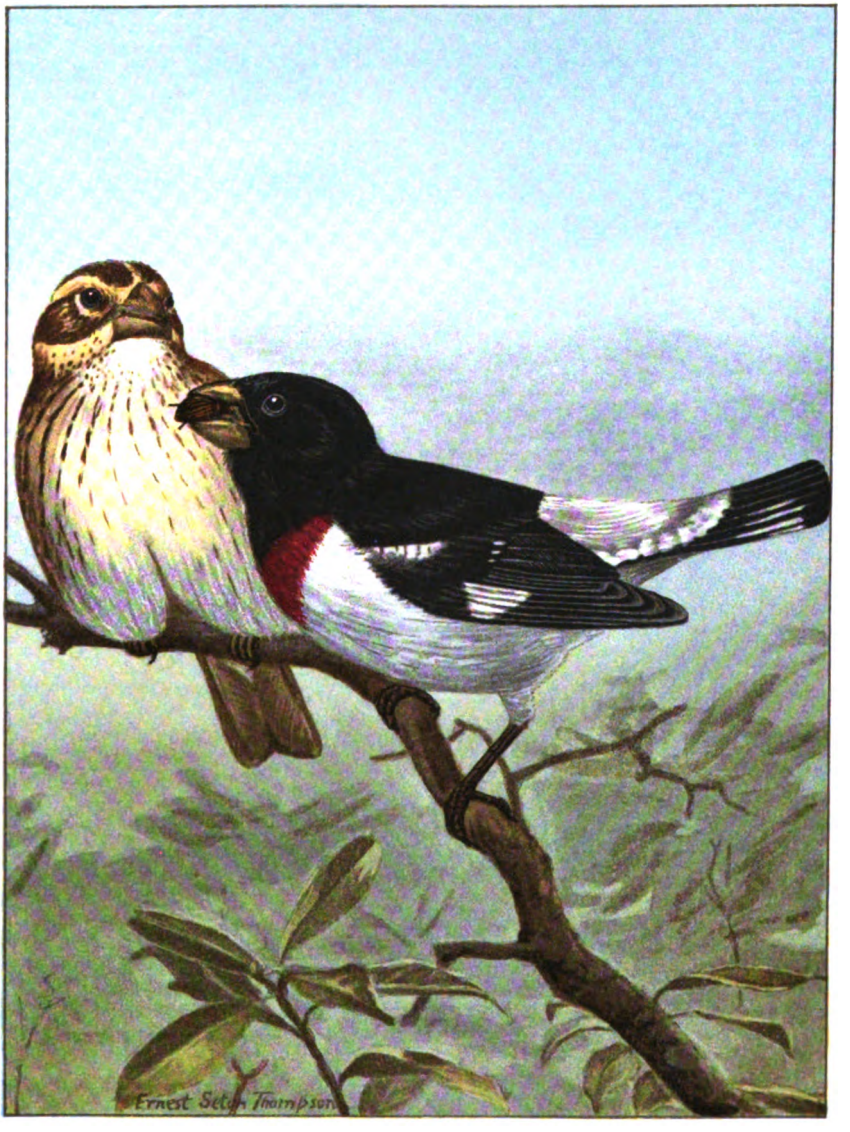

PLATE LIV. PAGE 150.

ROSE-BREASTED GROSBEAK.

Length, 8·10 inches. *Adult male*, crown and back black; rump white; throat black; breast rose-red; belly white. *Adult female*, upper parts dark brown and buff; a white line over eye; under parts buffy, streaked with brownish; under wing-coverts orange.

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PLATE LV. PAGE 151.

TOWHEE.

Length, 8·35 inches. *Adult male*, upper parts, throat, and breast black; belly white; sides reddish brown. *Adult female*, similar, but black replaced by brownish.

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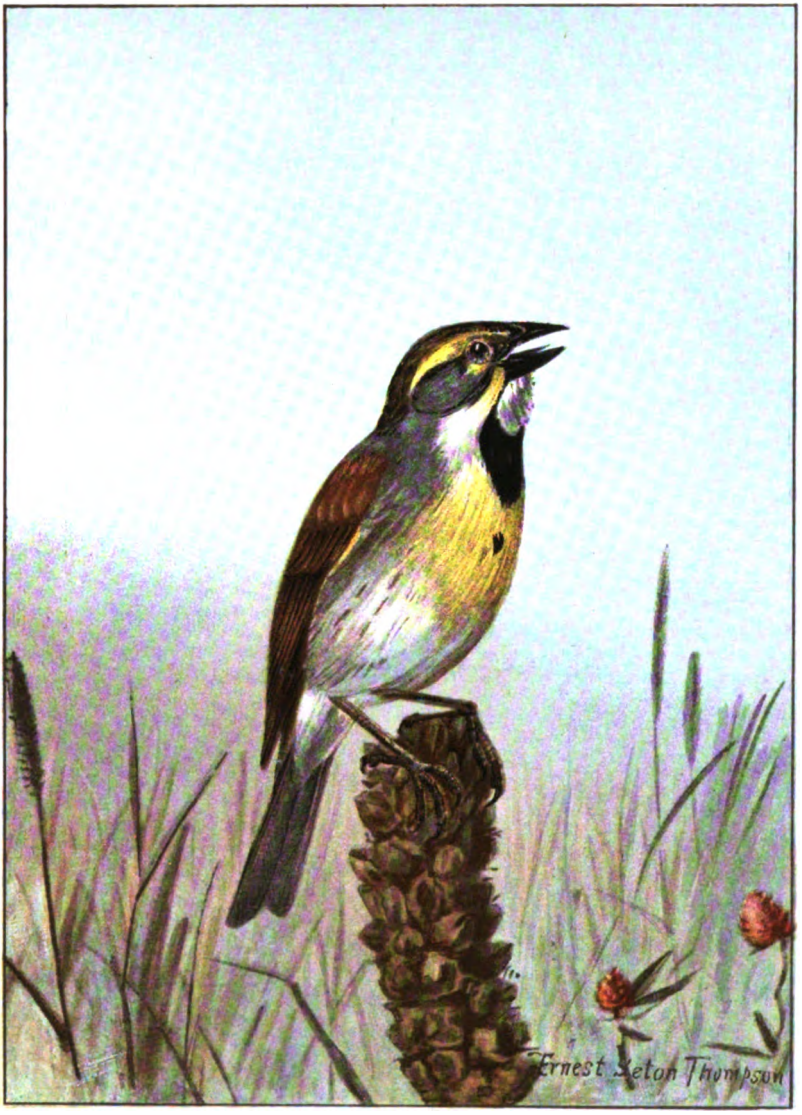

PLATE LVI. PAGE 155.

DICKCISSEL.

Length, 6·00 Inches. *Adult male*, back black, chestnut, and grayish; lesser wing-coverts bright chestnut; chin white; throat black; breast yellow; belly white. *Adult female*, upper parts streaked black and grayish; throat white; breast yellowish, with black streaks; belly white.

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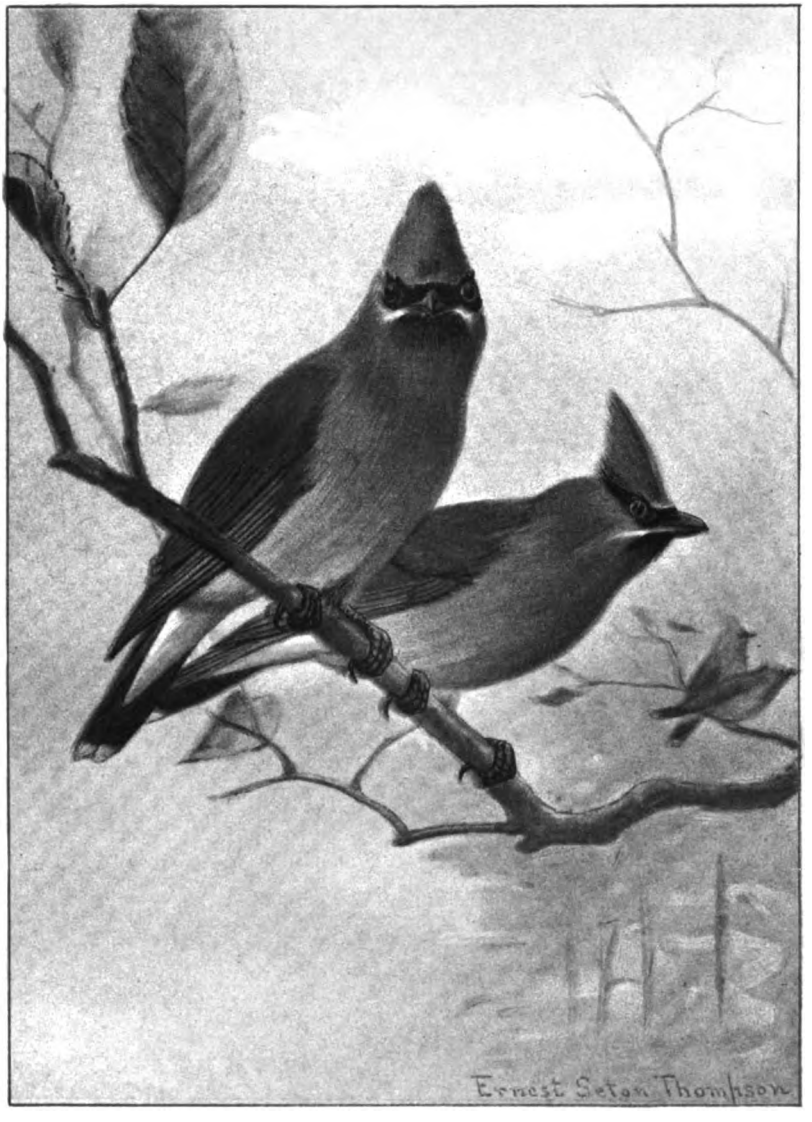

PLATE LVII. PAGE 161.

CEDAR WAXWING.

Length, 7·20 inches. Grayish brown; upper tail-coverts gray; lower belly yellowish; end of tail yellow; secondaries sometimes with red, sealing-wax-like tips; stripe through face black.

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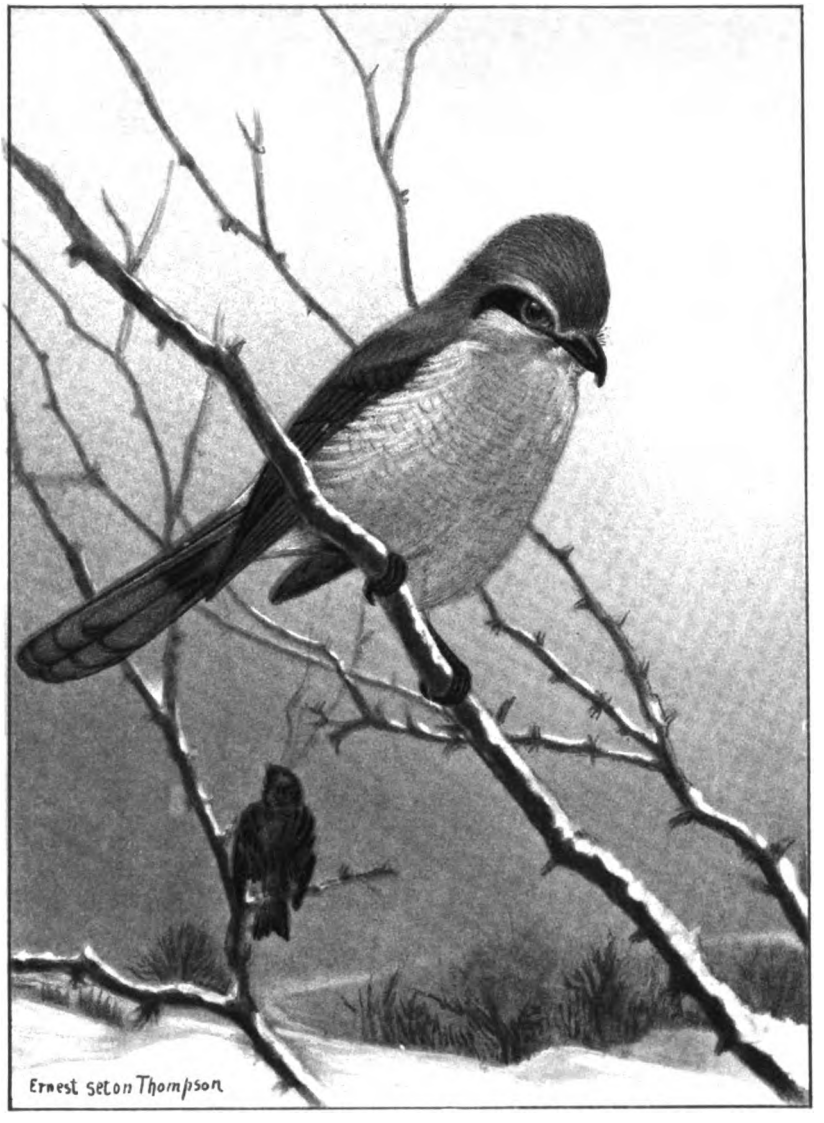

PLATE LVIII. PAGE 162.

NORTHERN SHRIKE.

Length, 10·30 inches. *Adult*, upper parts gray; tail black and white; under parts white, with blackish bars; lores grayish; ear-coverts black. *Young*, similar, but plumage washed with brownish.

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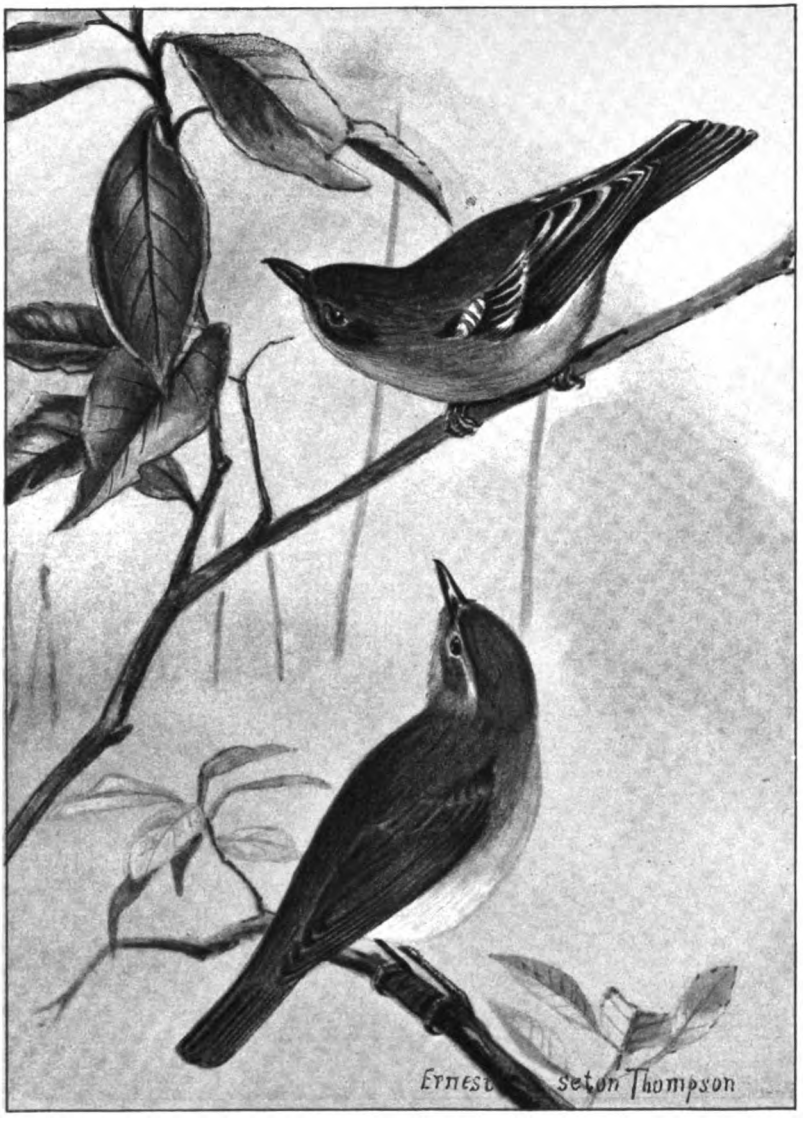

PLATE LIX. PAGES 164, 165.

RED-EYED VIREO.

Length, 6·25 inches. Crown gray, bordered by black and white; back, wings, and tail olive-green; under parts white.

YELLOW-THROATED VIREO.

Length, 5·95 inches. Crown and back greenish yellow; rump gray; breast bright yellow; belly white; wing-bars white.

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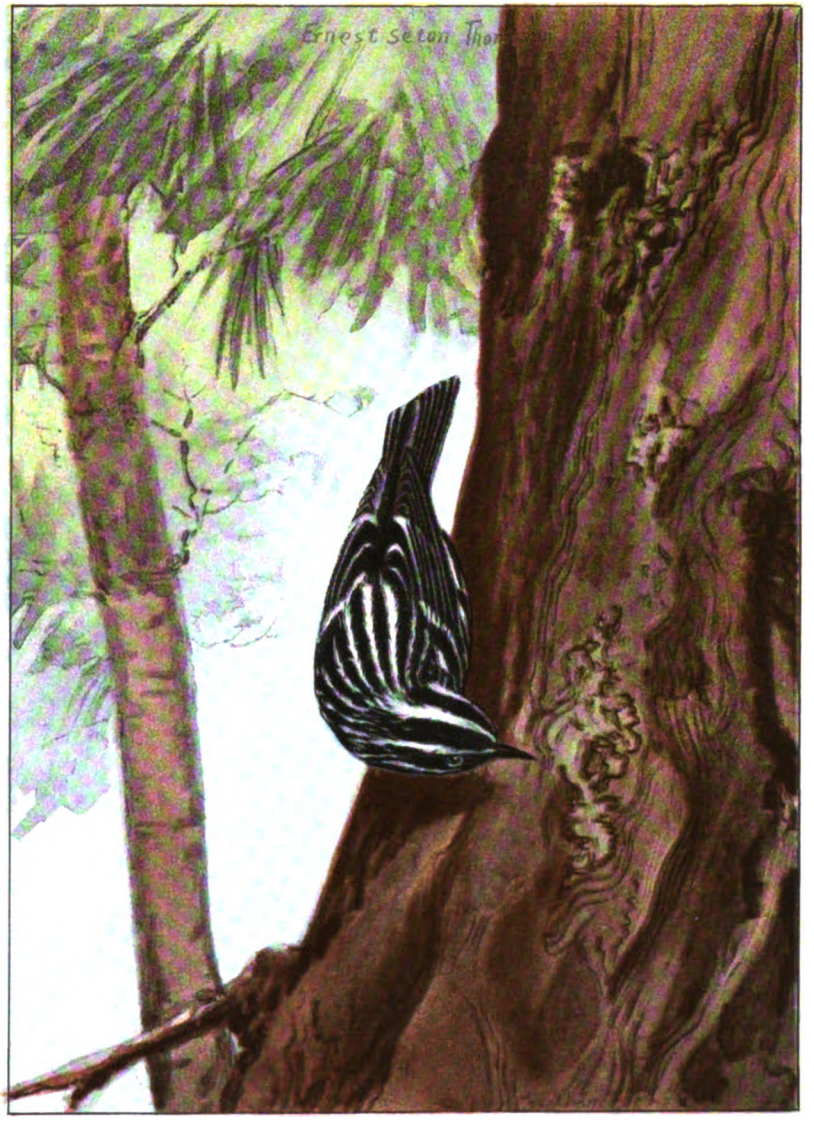

PLATE LX. PAGE 167.

BLACK AND WHITE WARBLER.

Length, 5·25 inches. *Adult male*, upper parts, breast, and sides black and white; belly white. *Adult female*, similar, but with less black on under parts.

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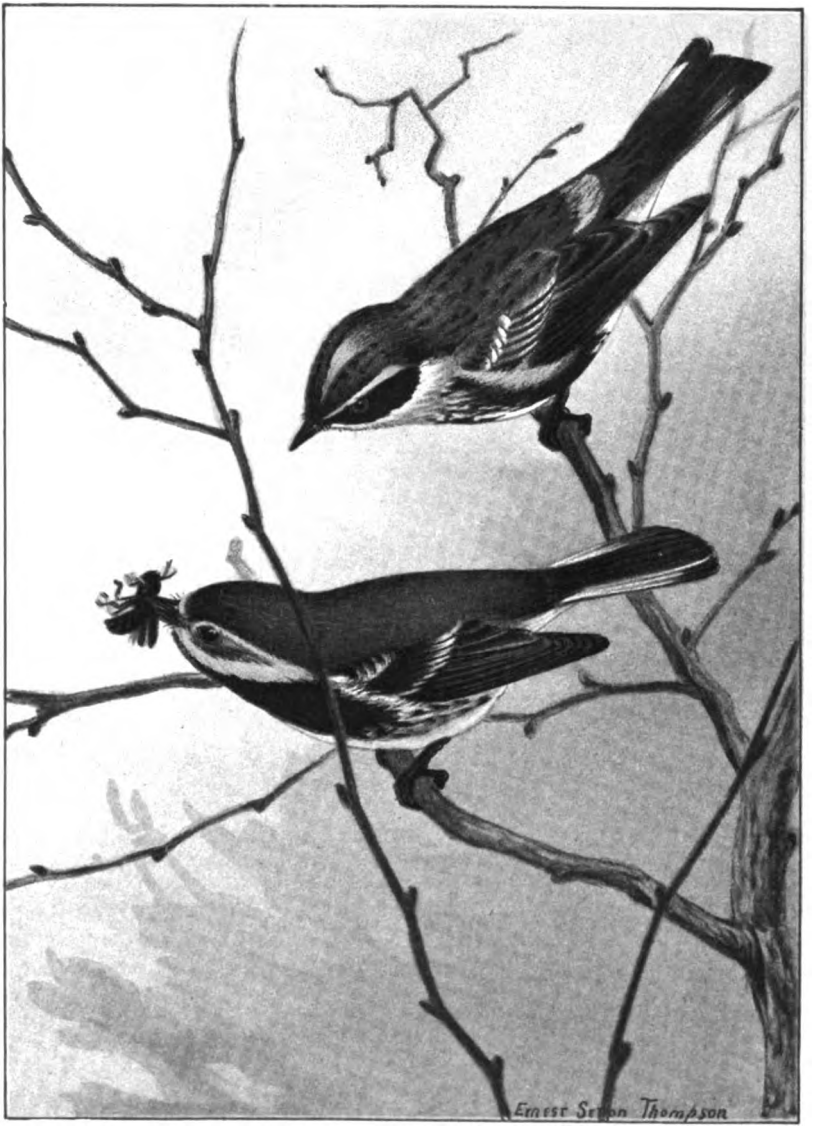

PLATE LXI. PAGE 168.

MYRTLE WARBLER.

Length, 5·65 inches. *Winter plumage*, crown-patch, rump, and sides of breast yellow; back brown and black; under parts black and white. *Summer plumage*, similar, but upper parts gray and black; more black on under parts.

BLACK-THROATED GREEN WARBLER.

Length, 5·10 inches. Upper parts yellowish green; face brighter; breast black; belly white.

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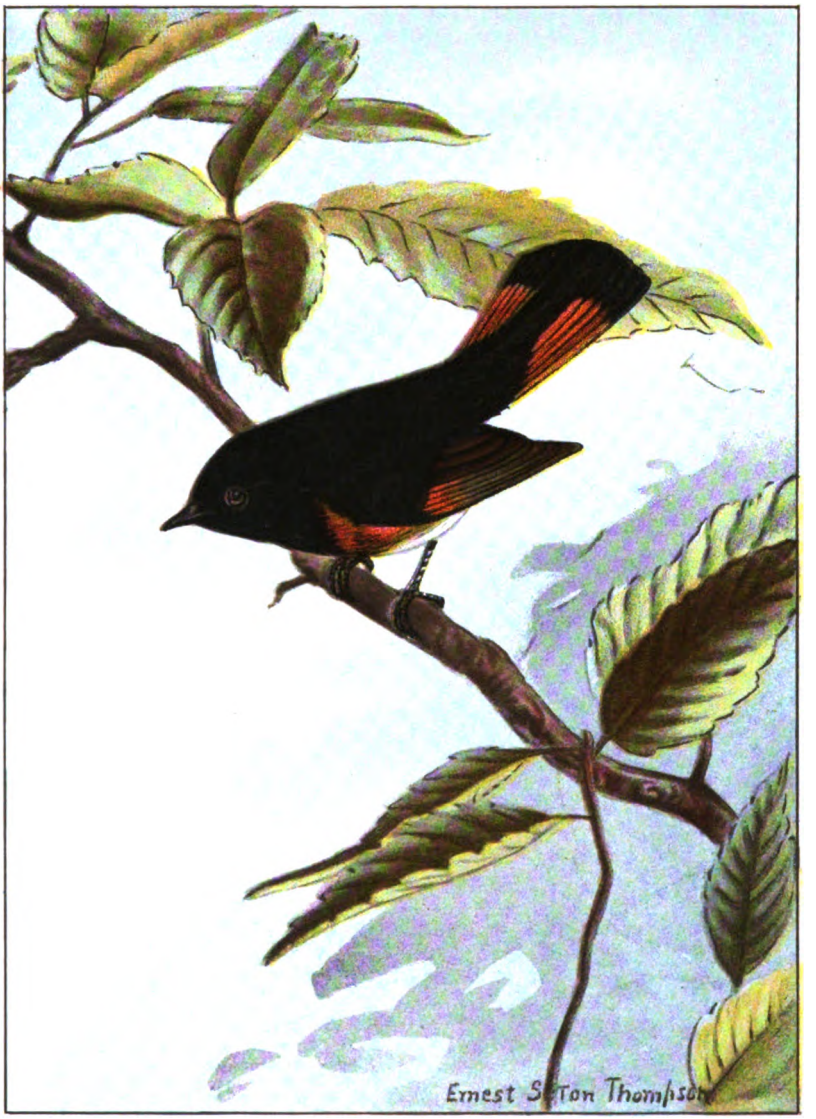

PLATE LXII. PAGE 169.

REDSTART.

Length, 5.40 inches. *Adult male*, band in wings; base of tail and sides of breast deep salmon; belly white; rest of plumage black. *Adult female and young*, similar, but salmon replaced by yellow; upper parts grayish brown; under parts white; breast yellowish.

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PLATE LXIII. PAGE 170.

OVEN-BIRD.

Length, 6·15 inches. Crown reddish brown, bordered by black; back, wings, and tail olive-green; under parts black and white.

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PLATE LXIV. PAGE 171.

MARYLAND YELLOW-THROAT.

Length, 5·30 inches. *Adult male*, face black, bordered by ashy; back olive-green; breast yellow; belly paler. *Adult female*, similar, but no black on face; under parts paler.

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PLATE LXV. PAGE 172.

YELLOW-BREASTED CHAT.

Length, 7·45 inches. Upper parts olive-green; breast yellow; belly white; lores black, bordered by white.

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PLATE LXVI. PAGE 174.

MOCKINGBIRD.

Length, 10·50 inches. Upper parts ashy gray; wings and tail brownish black and white; under parts white.

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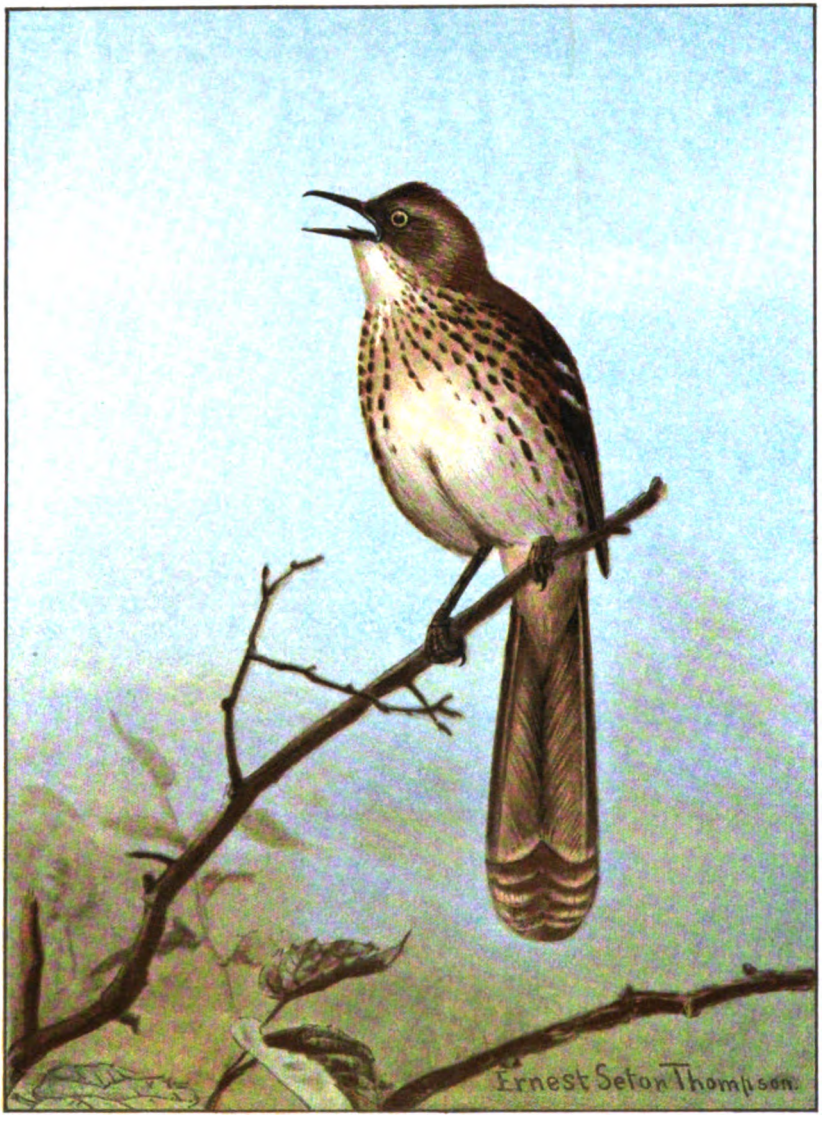

PLATE LXVII. PAGE 175.

BROWN THRASHER.

Length, 11·40 inches. Upper parts bright reddish brown ; under parts white and black ; eyes yellow.

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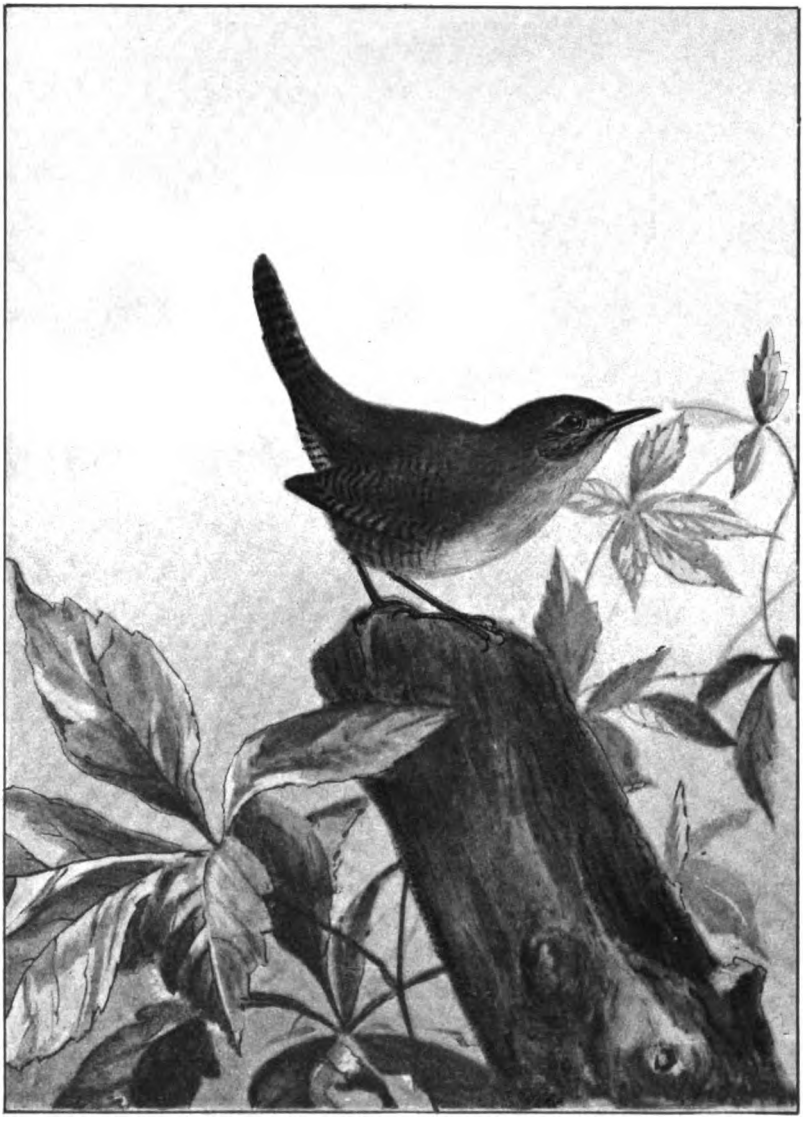

PLATE LXVIII. PAGE 175.

HOUSE WREN.

Length, 5·00 inches. Upper parts brown, marked with black and grayish; under parts grayish white.

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PLATE LXIX. PAGE 177.

LONG-BILLED MARSH WREN.

Length, 5·20 inches. Upper parts brown, black, and white, a white line over eye; under parts white, sides brownish.

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PLATE LXX. PAGES 178, 179.

CHICKADEE.

Length, 5·25 inches. Crown and throat black; cheeks white; back gray; belly white, washed with brownish.

BROWN CREEPER.

Length, 5·65 inches. Upper parts brown, rusty, and white; under parts white.

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PLATE LXXI. PAGES 180, 181.

RED-BREASTED NUTHATCH.

Length, 4·60 inches. *Male*, crown and line through eye black; back gray; under parts rusty. *Female*, similar, but black replaced by gray.

WHITE-BREASTED NUTHATCH.

Length, 6·05 inches. *Male*, crown black; back gray; face and under parts white. *Female*, similar, but crown slaty.

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PLATE LXXII. PAGES 181, 182.

GOLDEN-CROWNED KINGLET.

Length, 4·05 inches. *Male*, crown orange, yellow, and black; back olive-green; under parts whitish. *Female*, similar, but crown without orange.

RUBY-CROWNED KINGLET.

Length, 4·40 inches. *Adult male*, crown-patch ruby; back olive-green; under parts whitish. *Adult female and young*, similar, but no crown-patch.

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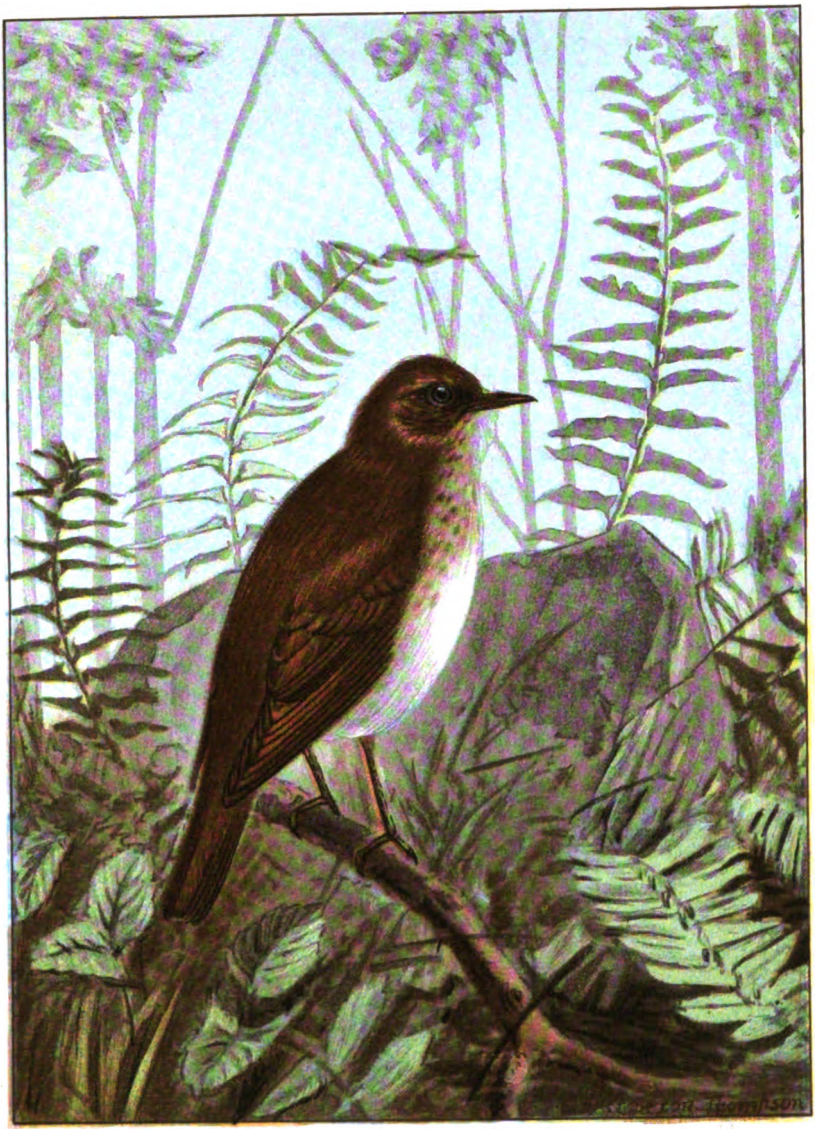

PLATE LXXIII. PAGE 183.

VEERY.

Length, 7·50 inches. Upper parts, wings, and tail uniform light cinnamon; breast buffy, light marked with cinnamon; belly white; sides grayish.

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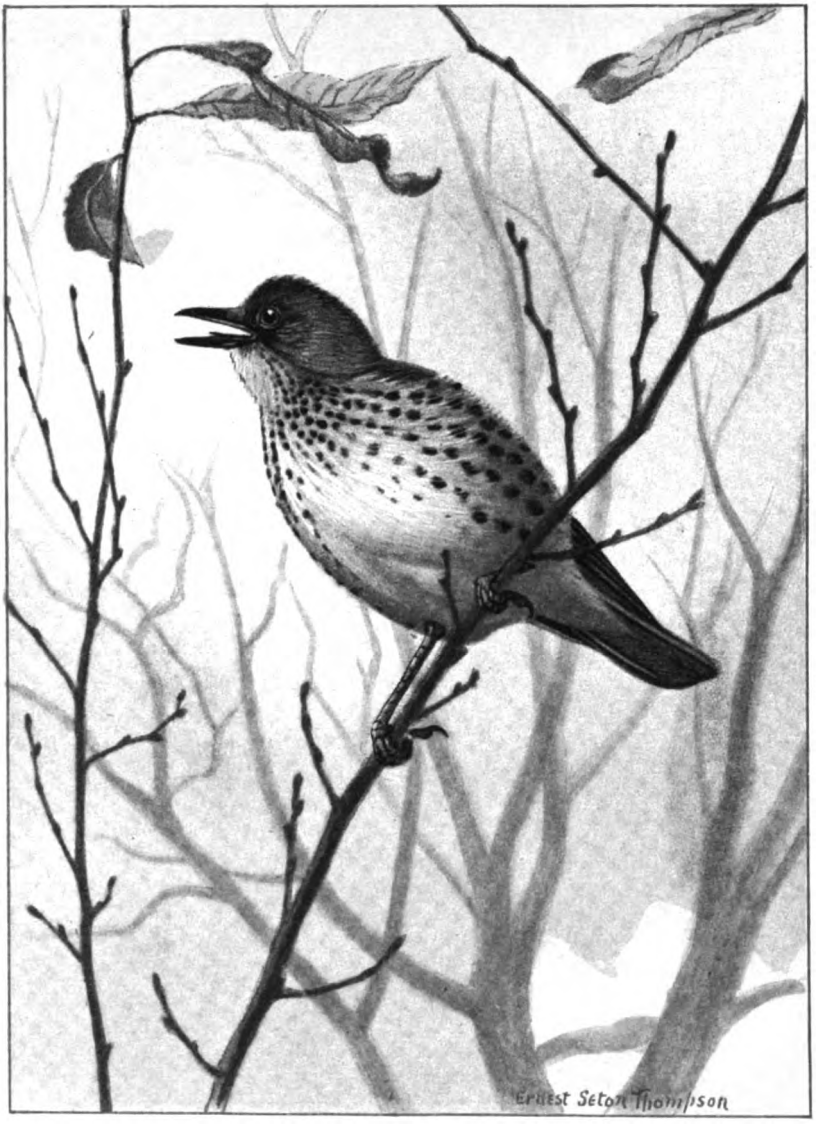

PLATE LXXIV. PAGE 184.

WOOD THRUSH.

Length, 8·30 inches. Upper parts bright, rusty cinnamon, brightest on back and crown; under parts white everywhere, except center of belly, with large, rounded black spots.

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PLATE LXXV. PAGE 185.

HERMIT THRUSH.

Length, 7·15 inches. Upper parts and wings dark cinnamon-brown; tail bright reddish brown; under parts white; breast spotted with black; sides washed with brownish; belly white.

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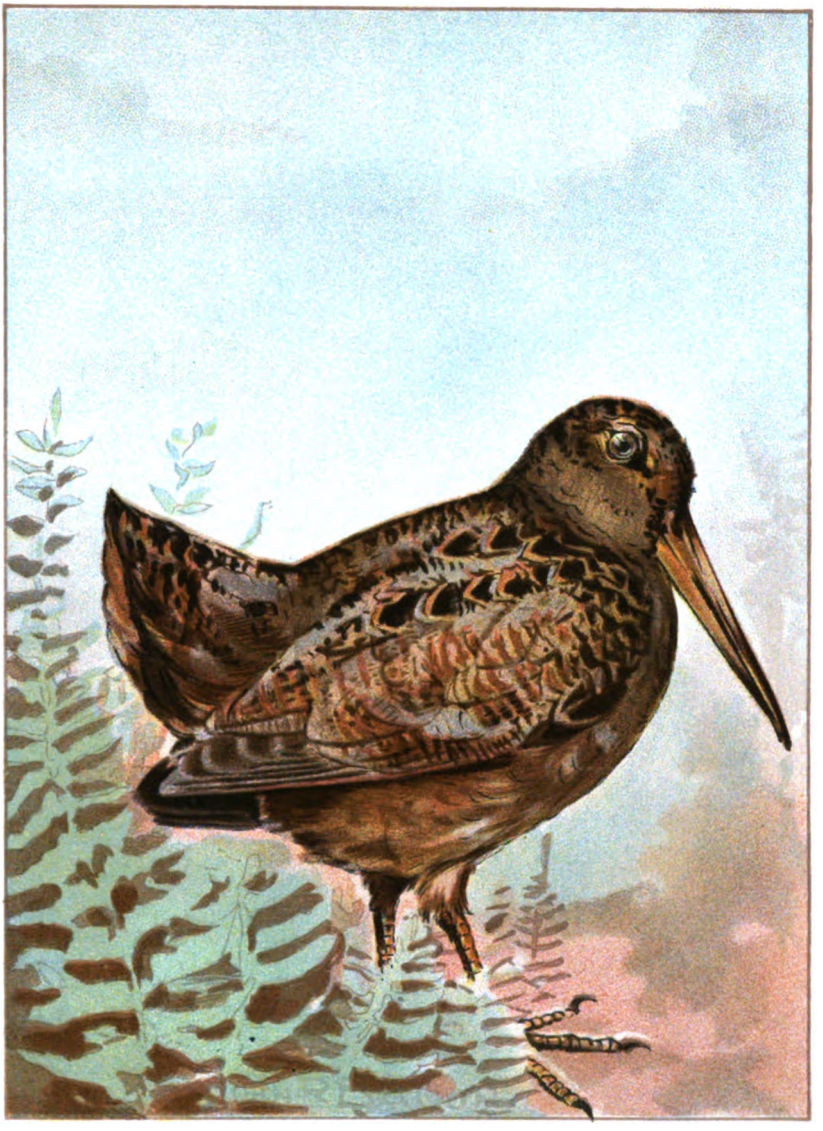

PLATE LXXVI.

AMERICAN WOODCOCK.

Length, 11·00 inches. Upper parts black, ochraceous and buff; under parts ochraceous.

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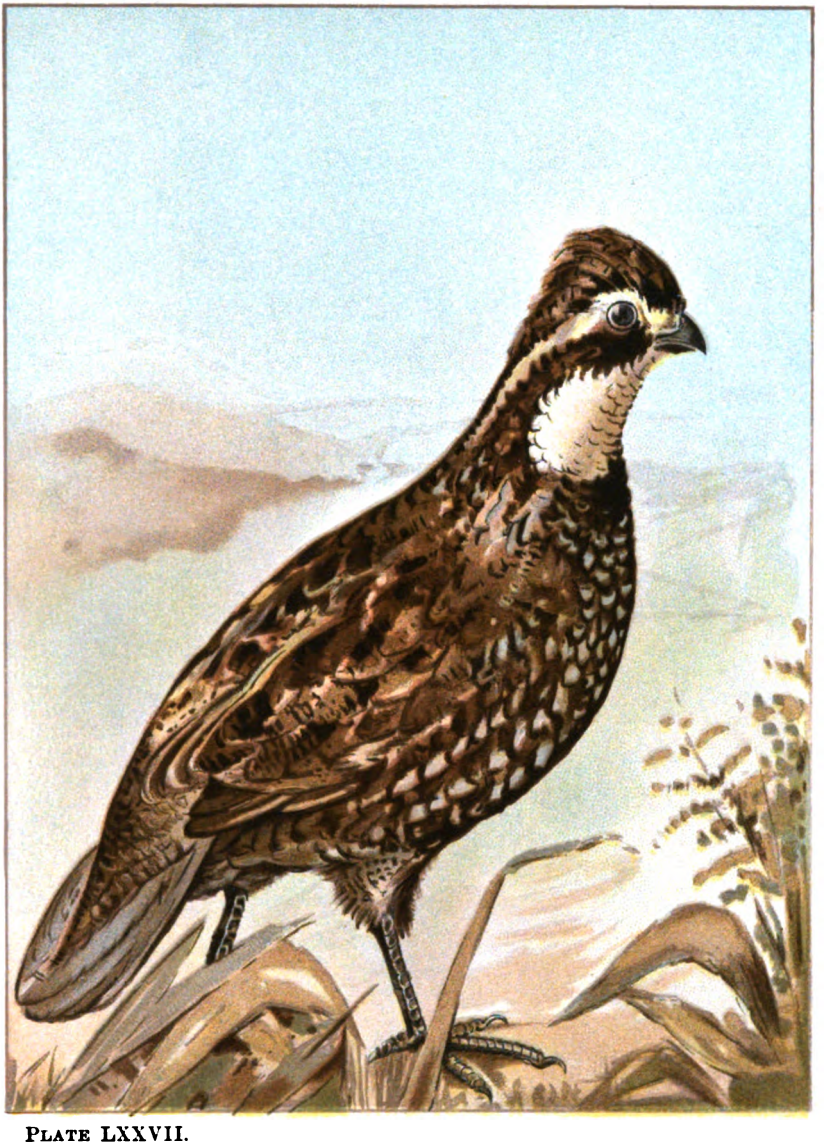

PLATE LXXVII.

BOB-WHITE.

Length, 10·00 inches. Upper parts reddish chestnut, black and buff; throat white, breast blackish, belly barred black and white; sides chestnut, black, and white.

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PLATE LXXVIII.

TURKEY BUZZARD.

Length, 30·00 inches. Head and neck naked, red; plumage shining black edged with brownish.

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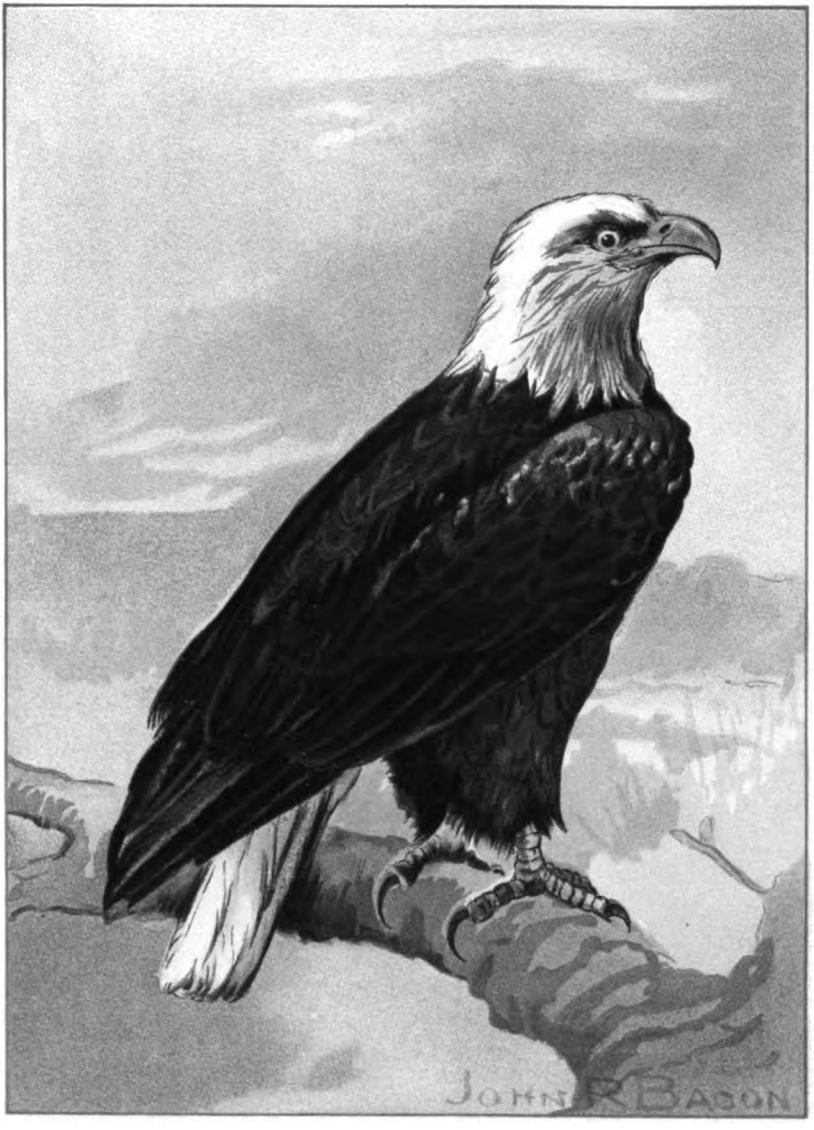

PLATE LXXIX.

BALD EAGLE.

Length, 34·00 inches. *Adult*, brownish black, head, neck, and tail white. *Im.*, brownish black tail more or less mottled with white.

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PLATE LXXX.

AMERICAN CROW.

Length, 19·25 inches. Glossy black with steel blue or dark purplish reflections.

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PLATE LXXXI.

BLUE JAY.

Length, 11·75 inches. Upper parts blue, tail tipped with white; under parts grayish white.

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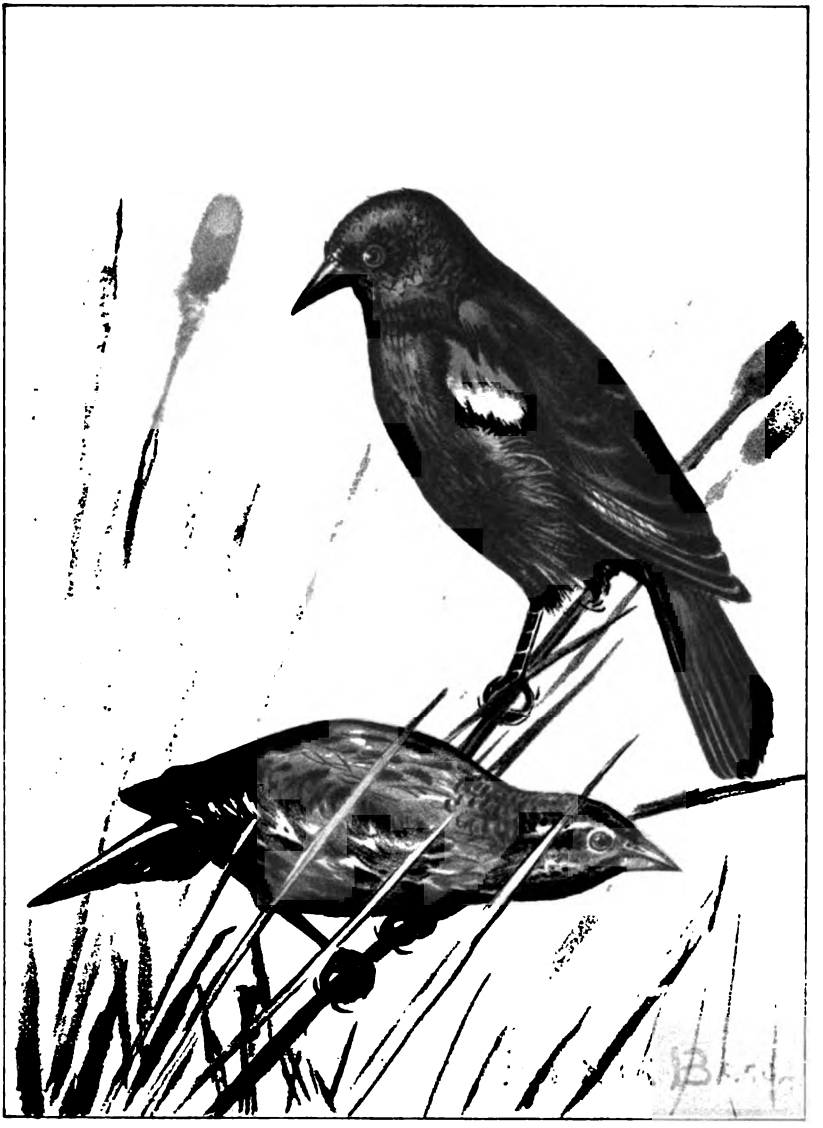

PLATE LXXXII.

RED-WINGED BLACKBIRD.

Length, 9·50 inches. *Male*, black, shoulders red tipped with buff. *Female*, streaked brownish black and white.

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PLATE LXXXIII.

INDIGO BUNTING.

Length, 5·50 inches. *Male*, blue, deepest on the head. *Female*, grayish brown sometimes tinged with blue.

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PLATE LXXXIV.

CARDINAL.

Length 8·25 inches. *Male*, rosy red, throat black. *Female*, olive-brown, lighter below, sometimes tinged with red.

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PLATE LXXXV.

SCARLET TANAGER.

Length, 7·25 inches. *Male*, scarlet, wings and tail black. *Female*, olive-green.

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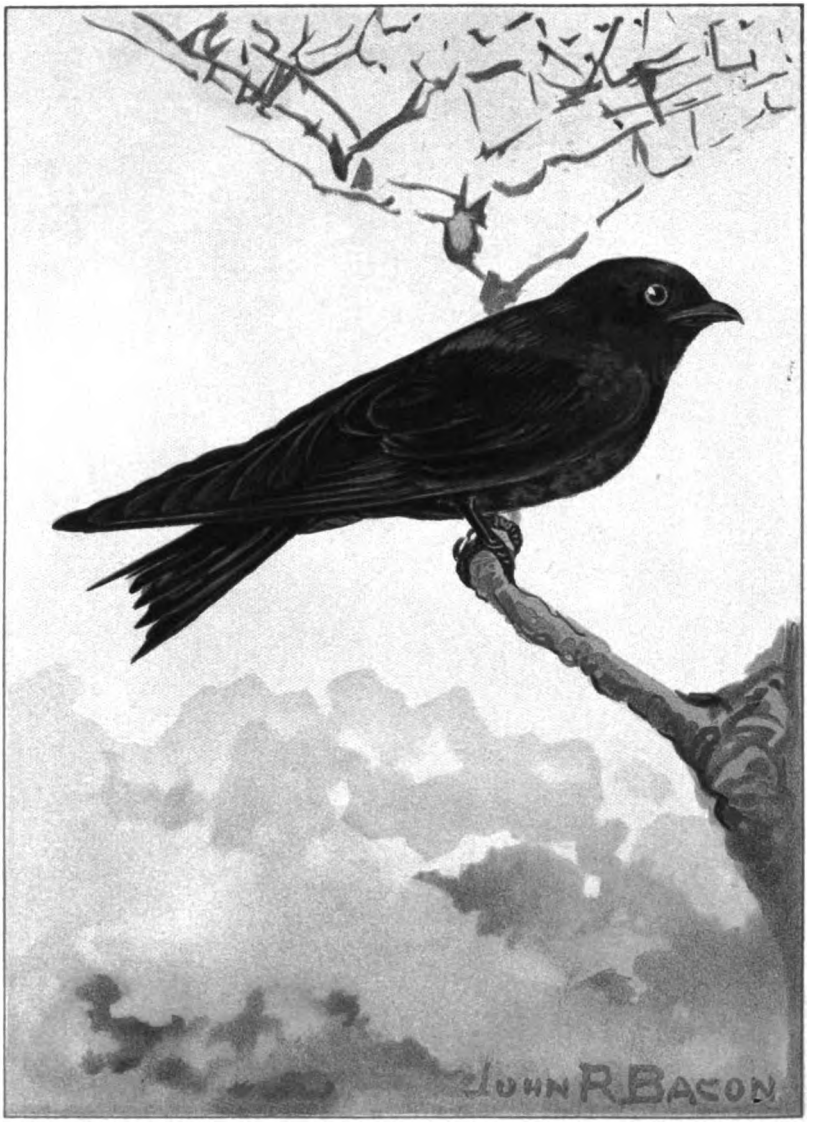

PLATE LXXXVI.

PURPLE MARTIN.

Length, 8·00 inches. *Male*, glossy blue-black. *Female*, upper parts glossy black, breast and sides brownish gray, belly white.

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PLATE LXXXVII.

YELLOW WARBLER.

Length, 5·00 inches. *Male*, upper parts greenish yellow; under parts bright yellow streaked with reddish brown. *Female*, similar but duller and without streaks below.

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PLATE LXXXVIII.

CATBIRD.

Length, 9·00 inches. Slate-gray, crown black, under tail-coverts chestnut.

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PLATE LXXXIX.

AMERICAN ROBIN.

Length, 10·00 inches. *Male*, head black, back grayish, breast rufous; outer tail feathers tipped with white. *Female*, similar but duller.

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PLATE XC.

BLUEBIRD.

Length, 7·00 inches. Upper parts bright blue; throat and breast cinnamon-rufous, belly white. *Female*, similar, but duller.

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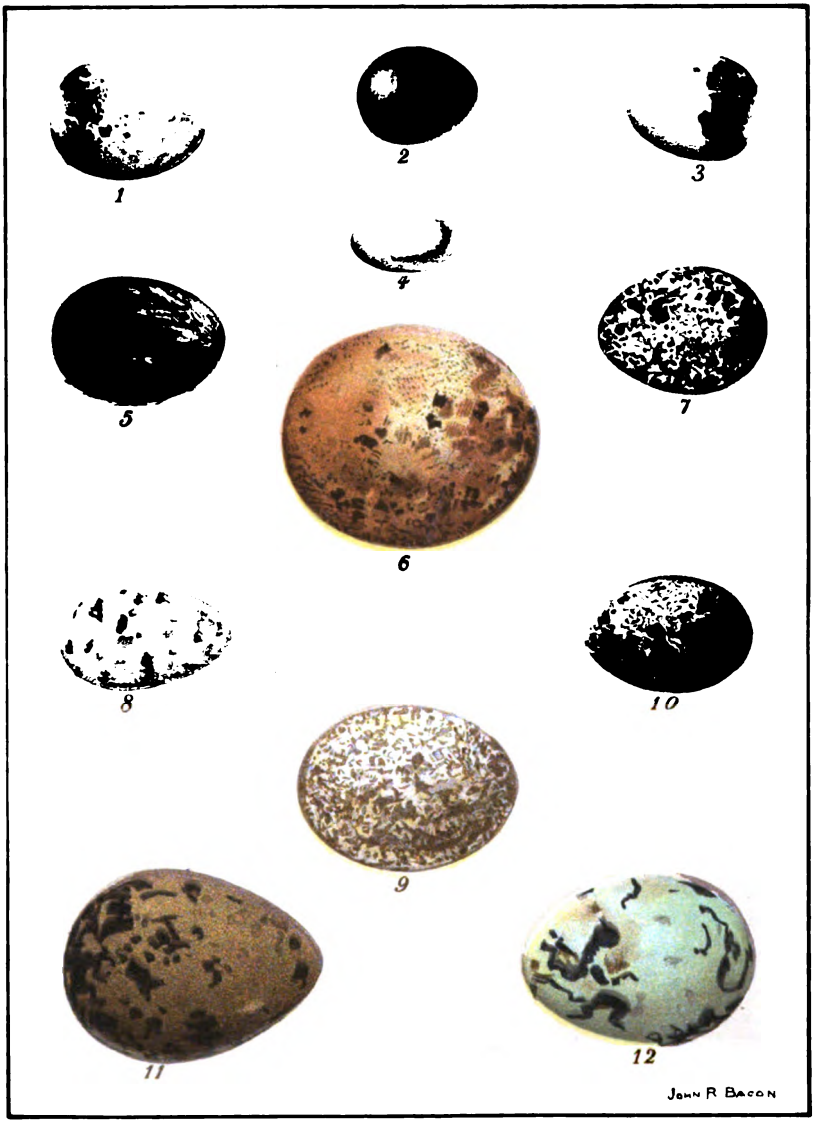

PLATE XCI.

TYPES OF BIRDS' EGGS.

1.—Oven-Bird (ovate; spotted and wreathed). 2.—House Wren (ovate; minutely speckled). 3.—Wood Pewee (ovate; blotched and wreathed). 4.—Hummingbird (elliptical; white, unmarked). 5.—Crested Flycatcher (elliptical-ovate; streaked). 6.—Sparrow Hawk (spherical; washed, spotted and blotched). 7.—Cowbird (ovate; evenly speckled and spotted). 8.—Cedar Waxwing (elongate-ovate; spotted). 9.—Nighthawk (elliptical; mottled and marbled). 10.—Bobolink (ovate; spotted and blotched). 11.—Semipalmated Sandpiper (pyriform; spotted). 12.—Purple Grackle (ovate; scrawled).

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PLATE XCII.

NEST AND EGGS OF KILLDEER.

(Photographed from Nature by F. M. Chapman, June 7, 1898, Meridian, N. Y.)

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PLATE XCIII.

NEST AND YOUNG OF MARSH HAWK.

(Photographed from Nature by F. M. Chapman, June 8, 1898, Meridian, N. Y.)

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PLATE XCIV.

NEST AND EGGS OF RED-WINGED BLACKBIRD.

(Photographed from Nature by F. M. Chapman, May 30, 1898, Englewood, N. J.)

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PLATE XCV.

NEST AND YOUNG OF MEADOWLARK.

(Photographed from Nature by F. M. Chapman, June 7, 1898, Meridian, N. Y.)

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PLATE XCVI.

NEST AND THREE EGGS OF RED-EYED VIREO, AND THREE EGGS OF COWBIRD.

(Photographed from Nature by F. M. Chapman, June 7, 1898, Meridian, N. Y.)

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PLATE XCVII.

NEST AND EGG OF OVEN-BIRD.

(Photographed from Nature by F. M. Chapman, June 5, 1898, Fairfield, Conn.)

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PLATE XCVIII.

NEST AND FOUR EGGS OF MARYLAND YELLOW-THROAT, AND ONE EGG OF COWBIRD.

(Photographed from Nature by F. M. Chapman, May 22, 1898, Englewood, N. J.)

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PLATE XCIX.

NEST AND EGGS OF CATBIRD.

(Photographed from Nature by F. M. Chapman, June 15, 1898, Englewood, N. J.)

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PLATE C.

WOOD THRUSH AND NEST.

(Photographed from Nature by F. M. Chapman, May 30, 1898, Englewood, N. J.)

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